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VOLUME 12 OF 18

RESULTS OF TESTS OAL2 AND 1A9 IN THE
AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS
ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE
VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

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By

R. H. Spangler
Rockwell International

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, Louisiana 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WING TUNNEL TEST SPECIFICS:

Test Numbers: ARC 11-707 (A)
 ARC 97-707 (B)
 ARC 87-707 (C)
NASA Series Numbers: IA9A, B, C and
 OA12A, C
Test Date: 2 April - 17 May, 1973

FACILITY COORDINATOR:

C. R. Nysmith
Ames Research Center
Mail Stop N-229-5
Moffett Field, California 94035

Phone: (415) 965-5274

PROJECT ENGINEERS:

R. H. Spangler, R. L. Gillins, E. Chee
Rockwell International, Space Division
12214 Lakewood Boulevard
Mail Code AC-07
Downey, California 90241

Phone: (213) 922-1432

J. J. Brownson, R. E. Fahey
Ames Research Center
Mail Stop 227-5
Moffett Field, California 94035

Phone: (415) 965-6262

DATA MANAGEMENT SERVICES:

This document has been prepared by:

for D. A. Sarver, Terry Mulkey
Liaison Operations

D. E. Poucher, H. C. Zimmerle
Data Operations

[Signature]
[Signature]

This document has been reviewed and is approved for release.

for N. D. Kemp
Data Management Services

[Signature]

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ABSTRACT

Tests were conducted in the NASA/ARC Unitary Plan Wind Tunnels during April and May 1973, on an 0.030-scale replica of the Space Shuttle Vehicle Configuration 2A. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 3.5.

The investigation included Tests IA9A, B and C on the integrated (launch) configuration and Tests OA12A and C on the isolated orbiter (entry configuration). The integrated vehicle was tested at angles of attack and sideslip from -8 degrees to +8 degrees. The isolated orbiter was tested at angles of attack from -15 degrees to +40 degrees and angles of sideslip from -10 degrees to +10 degrees as dictated by trajectory considerations. The effects of orbiter/external tank incidence angle and deflected control surfaces on aerodynamic loads were also investigated.

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TABLE OF CONTENTS

	<u>Page</u>
ABSTRACT.....	iii
INDEX OF MODEL FIGURES.....	2
INDEX OF TABULATED PRESSURE DATA.....	3
INTRODUCTION.....	8
NOMENCLATURE.....	11
CONFIGURATIONS INVESTIGATED.....	15
TEST FACILITIES DESCRIPTION.....	18
DATA REDUCTION.....	19
TABLES	
I TEST CONDITIONS.....	20
II DATA SET COLLATIONS.....	21
III MODEL COMPONENT DIMENSIONAL DATA.....	33
IV PRESSURE ORIFICE LOCATIONS	
a. Orbiter Body.....	44
b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail.....	45
c. Orbiter Wing.....	46
d. External Tank.....	47
e. Left SRM.....	48
FIGURES	
MODEL.....	49
TABULATED PRESSURE DATA.....	55

INDEX OF MODEL FIGURES

<u>Figure</u>	<u>Title</u>	<u>Page</u>
1.	Axis Systems.	49
2.	Model Sketches.	
	a. Orbiter, O _{2A}	50
	b. SRM, S ₃ , and External Tank, T ₉	51
	c. Integrated Vehicle	52
3.	Model Installation Photographs.	
	a. Integrated (Launch) Vehicle Mounted in the ARC 9 x 7 Ft. Tunnel	53
	b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8 x 7 Ft. Tunnel	54

INDEX OF TABULATED PRESSURE DATA

<u>COMPONENT</u>	<u>PAGES</u>
VOLUME 7	
<u>TEST IA9A</u>	
Orbiter Fuselage	1-646
Orbiter Base	647-718
Upper MPS Nozzle	719-904
VOLUME 8	
<u>TEST IA9A</u>	
OMS Nozzle	905-1029
Body Flap	1030-1146
OMS Pod Outside	1147-1263
Lower Wing Surface	1264-1896
VOLUME 9	
<u>TEST IA9A</u>	
Upper Wing Surface	1897-2529
Left Vertical Tail Surface	2530-2730
Right Vertical Tail Surface	2731-2931
APU Inlet	2932-3003
SRM Booster Base	3004-3132
VOLUME 10	
<u>TEST IA9A</u>	
SRM Booster	3133-3614

INDEX OF TABULATED PRESSURE DATA (Continued)

<u>COMPONENT</u>	<u>PAGES</u>
External Tank	3615-4128
External Tank Base	4129-4253
VOLUME 11	
<u>TEST 1A9B</u>	
Orbiter Fuselage	1-326
Orbiter Base	327-382
Upper MPS Nozzle	383-467
OMS Nozzle	468-524
Body Flap	525-581
OMS Pod Outside	582-638
Lower Wing Surface	639-955
VOLUME 12	
<u>TEST 1A9B</u>	
Upper Wing Surface	956-1272
Left Vertical Tail Surface	1273-1377
Right Vertical Tail Surface	1378-1482
APU Inlet	1483-1538
SRM Booster Base	1539-1610
SRM Booster	1611-1850
External Tank	1851-2119
External Tank Base	2120-2176

INDEX OF TABULATED PRESSURE DATA (Continued)

<u>COMPONENT</u>	<u>PAGES</u>
VOLUME 13	
<u>TEST IA9C</u>	
Orbiter Fuselage	1-416
Orbiter Base	417-470
Upper MPS Nozzle	471-575
OMS Nozzle	576-651
Body Flap	652-718
OMS Pod Outside	719-785
VOLUME 14	
<u>TEST IA9C</u>	
Lower Wing Surface	786-1185
Upper Wing Surface	1186-1585
Left Vertical Tail Surface	1586-1712
Right Vertical Tail Surface	1713-1839
VOLUME 15	
<u>TEST IA9C</u>	
APU Inlet	1840-1893
SRM Booster Base	1894-1974
SRM Booster	1975-2276
External Tank	2277-2616
External Tank Base	2617-2692

INDEX OF TABULATED PRESSURE DATA (Continued)

<u>COMPONENT</u>	<u>PAGES</u>
VOLUME 16	
<u>TEST OAL2A</u>	
Orbiter Fuselage	1-449
Orbiter Base	450-501
Upper MPS Nozzle	502-630
OMS Nozzle	631-717
Body Flap	718-796
OMS Pod Outside	797-875
VOLUME 17	
<u>TEST OAL2A</u>	
Lower Wing Surface	876-1269
Upper Wing Surface	1270-1663
Left Vertical Tail Surface	1664-1795
Right Vertical Tail Surface	1796-1927
APU Inlet	1928-1979
VOLUME 18	
<u>TEST OAL2C</u>	
Orbiter Fuselage	1-327
Orbiter Base	328-351
Upper MPS Nozzle	352-415
OMS Nozzle	416-459
Body Flap	460-501

INDEX OF TABULATED PRESSURE DATA (Concluded)

<u>COMPONENT</u>	<u>PAGES</u>
OMS Pod Outside	502-543
Lower Wing Surface	544-738
Upper Wing Surface	739-933
Left Vertical Tail Surface	934-997
Right Vertical Tail Surface	998-1061
APU Inlet	1062-1085

INTRODUCTION

The 0.030-scale Aero Loads Space Shuttle model was tested in the Unitary Plan Wind Tunnels at ARC starting April 2, and continuing through May 17, 1973 as follows:

IA9A	11-foot Transonic	April 2 to April 14, 1973
OA12A	11-foot Transonic	April 16 to April 29, 1973
IA9C	8x7-foot Supersonic	April 23 to May 1, 1973
OA12C	8x7-foot Supersonic	May 2 to May 8, 1973
IA9B	9x7-foot Supersonic	May 9 to May 17, 1973

The testing was conducted in all three legs of the Unitary Plan Wind Tunnels to obtain a Mach number range from 0.6 to 3.5. Aerodynamic loads data were obtained for the ascent and entry configurations. The effects of control surface deflections were also investigated.

This report consists of 3 volumes of force data and 15 volumes of pressure data for a total of 18 volumes arranged in the following manner:

<u>VOLUME NO.</u>	<u>CONTENTS</u>
1	IA9A force data
2	IA9B and IA9C force data
3	OA12A and OA12C force data
4	IA9A plotted pressure data
5	IA9B and IA9C plotted pressure data
6	OA12A and OA12C plotted pressure data
7	IA9A tabulated pressure data (a) orbiter fuselage (b) orbiter base (c) upper MPS nozzle
8	IA9A tabulated pressure data (a) OMS nozzle (b) body flap (c) OMS pod outside (d) lower wing surface
9	IA9A tabulated pressure data (a) upper wing surface (b) left vertical tail surface (c) right vertical tail surface (d) APU inlet (e) SRM booster base
10	IA9A tabulated pressure data (a) SRM booster (b) external tank (c) external tank base

INTRODUCTION (CONTINUED)

- 11 IA9B tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside
 - (g) lower wing surface
- 12 IA9B tabulated pressure data
 - (a) upper wing surface
 - (b) left vertical tail surface
 - (c) right vertical tail surface
 - (d) APU inlet
 - (e) SRM booster base
 - (f) SRM booster
 - (g) external tank
 - (h) external tank base
- 13 IA9C tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside
- 14 IA9C tabulated pressure data
 - (a) lower wing surface
 - (b) upper wing surface
 - (c) left vertical tail surface
 - (d) right vertical tail surface
- 15 IA9C tabulated pressure data
 - (a) APU inlet
 - (b) SRM booster base
 - (c) SRM booster
 - (d) external tank
 - (e) external tank base
- 16 OA12A tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside

INTRODUCTION (CONCLUDED)

- 17 OA12A tabulated pressure data
 - (a) lower wing surface
 - (b) upper wing surface
 - (c) left vertical tail surface
 - (d) right vertical tail surface
 - (e) APU inlet
- 18 OA12C tabulated pressure data
 - All components

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$ _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D _f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (CONTINUED)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
δ_R	RUDDER	rudder, surface deflection angle, positive deflection, trailing edge to the left; degrees.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{RF}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{RF} = (\delta_{RL} + \delta_{RR})/2$, positive deflection; degrees.
i_o	ORBINC	incidence angle between the orbiter and external tank, $i_o = \alpha_t - \alpha_b$; degrees.
β_T	BETAT	angle of sideslip of external tank.
α_T	ALPHAT	angle of attack of external tank.
l_B	LB	length of orbiter body; in.
l_T	LT	length of external tank; in.
l_s	LS	length of SRM booster; in.
l_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane; in.
l_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane; in.
$b/2$	BW	wing semi-span; in.
b_v	BV	vertical tail span; in.
x	X	distance from component nose; in.
y	Y	lateral distance from centerline; in.

NOMENCLATURE (CONCLUDED)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord); in.
c_w	CW	local wing chord; in.
c_v	CV	local vertical tail chord; in.
x/l_B	X/LB	longitudinal position/orbiter body length.
x/l_T	X/LT	longitudinal position/external tank length.
x/l_S	X/LS	longitudinal position/booster length.
x/l_{NM}	X/LNM	longitudinal position/OMS nozzle length.
x/l_{NP}	X/LNP	longitudinal position/MPS nozzle length.
x/c_w	X/CW	local chordwise position/local wing chord length.
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
$y/b/2$	Y/BW	local spanwise position/wing semi-span.
z/b_v	Z/BV	local spanwise position/vertical tail span.

CONFIGURATIONS INVESTIGATED

The 0.030-scale aero loads model was a replica of the Space Shuttle Vehicle 2A. It consisted of four major components: the orbiter, the external oxygen and hydrogen tank (ET) and two solid rocket boosters (SRB).

On the ascent configuration, the orbiter was strut mounted from the ET on a Task Corporation MK XVI 2.5-inch diameter internal balance. The left SRB was strut mounted from the ET on a Task Corporation MK XXII 1.5-inch diameter internal balance. No attempt was made to simulate actual inter-attachments. The ET was sting mounted to the tunnel model support system on a Task Corporation 4.0-inch diameter internal balance. The right SRB was strut mounted symmetrically to the left side, but did not contain a balance. The orbiter configuration, designated as O2A, consisted of B10C5D7W87V5R5M3E4.

The entry configuration consisted of the isolated orbiter, sting mounted to the tunnel model support system on a Task Corporation MK XXA 2.5-inch diameter internal balance. Midway through the OAl2C test, the MK XXA balance was damaged and was replaced by the MK XXB for the high angles of attack. The orbiter was provided with deflectable elevons by means of interchangeable brackets, deflectable rudder by means of a pin-indexed hinge, and interchangeable rudders to obtain different speed brake flare angles. The main propulsion system engines were removed during entry configuration testing to provide sting clearance. A cover plate was provided for the strut clearance hole.

The orbiter was instrumented with 374 pressure orifices on the left wing, left side of the fuselage, vertical tail, left OMS pod and engine, left and upper MPS engine and the base. The pressures were measured using eleven Scanivalve, Inc., S-type valve modules mounted internally (a five and a six gang unit). When tested in the entry configuration, the MPS pressures were not available for measurement.

The left side of the ET was instrumented with 136 pressure orifices. These pressures were measured by means of 7 Scanivalve, Inc., S-type valve modules configured as one unit of 6 modules and one single. These valves were mounted internally in the tank. The left SRB had one gang of six S-type modules to measure 102 pressures. The right SRB was not instrumented. The pressure transducers used in the valve modules were Statham PM 131 TC differential pressure transducers, with ranges of ± 10 psid, ± 12.5 psid and ± 15 psid. Reference and calibration pressures were measured by the ARC micro manometers.

Some modifications were made to the model at the test site prior to

CONFIGURATIONS INVESTIGATED (CONTINUED)

testing. These were as follows:

1. The forward tip of the ET containing the retro rocket package (Reference NR Drawing VL78-000018) was replaced with a flush 0.90 inch radius nose (Model scale). The new nose had five pressure taps; one in the nose and four more aft of the nose on the vertical and horizontal axis on a 0.315 inch radius.
2. The ET balance cavity was enlarged by one inch on the diameter (from 5 inches to 6 inches) to provide clearance for cable routing and eliminate balance interference.
3. The clearances around both the orbiter and the SRB struts were opened to approximately 1/8 inch to prevent interference.
4. An alternate rudder hinge pin was provided to give a rudder deflection of +15 degrees.

Before and during the tests various model discrepancies developed or were discovered. These were generally minor and had only a negligible, if any, effect on the data. Significant discrepancies are noted below:

1. Pressure orifices P171 and P173 on the OMS pod base were omitted.
2. During the test certain pressure taps developed leaks or became plugged. Data from these taps are questionable and should be used with caution. Difficulties in checking may have resulted in erroneous indications of leakage. Repairs were made to correct leaking or plugged pressure instrumentation, whenever possible, as the test progressed. The following list gives those taps that were indicated as bad on the various leak and response checks:

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	2-4	72, 163, 427
↓	5-118	31, 100, 123, 163, 201, 427
	119-160	16, 98, 101, 107, 333, 427
	161-170	16, 98, 101, 107, 333, 427 + 306, 307, 327, 328, 336, 337, 356, 357, 375

CONFIGURATIONS INVESTIGATED (CONCLUDED)

<u>ARC Facility</u>	<u>Run Nos.</u>	<u>Orifice numbers with questionable pressure data</u>
11'	171-182	16, 47, 53, 75, 78, 98, 107, 201, 236, 237, 238, 307, 327, 365, 427
↓	183-189	Same as (171-182) + 7, 447, 525
↓	190-211	Same as (171-182)
8'x7'	220-234	20, 21, 24, 74, 326, 327, 336, 424, 427, 752, 868, 871
↓	235-285	74, 326, 327, 336, 424, 427, 752, 868, 871
↓	286-300	74, 107, 115, 124, 129, 138, 326, 327, 336, 427
↓	301-305	74, 326, 327, 336, 427
↓	306-333	74, 326, 327, 427
9'x7'	340-396	5, 325, 326, 327, 424, 427, 526, 752, 868, 871

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Ft. Transonic

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Ft. Supersonic

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6 .

Ames 9 x 7-Ft. Supersonic

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Standard procedures were utilized to reduce force and pressure data to coefficient form. The following dimensional constants were applied:

Reference Dimensions and Constants (Model Scale)

$$S_{\text{Ref.}} = 2.421 \text{ ft}^2$$

Orbiter reference area

$$Q_{\text{Ref.}} = 39.849 \text{ in.}$$

Orbiter reference length

Base Areas (Model Scale)

$$A_{\text{BOI}} = 0.1903 \text{ Ft}^2$$

Orbiter base area, integrated

$$A_{\text{BOA}} = 0.2362$$

Orbiter base area, sting mounted

$$A_{\text{BMPSU}} = 0.0417$$

Orbiter upper MPS base area

$$A_{\text{BMPSL}} = 0.0853$$

Orbiter lower MPS base area

$$A_{\text{BACPS}} = 0.0310$$

Orbiter ACPS base area on OMS pod

$$A_{\text{BOMS}} = 0.0231$$

Orbiter OMS nozzle base area

$$A_{\text{BPOD}} = 0.0257$$

Orbiter OMS pod base area

$$A_{\text{CO}} = 0.0611$$

Orbiter sting cavity base area

$$A_{\text{BNOZ}} = 0.0564$$

SRM nozzle base area

$$A_{\text{BSKIRT}} = 0.1729$$

SRM nozzle skirt base area

$$A_{\text{BETI}} = 0.3189$$

ET Base area

$$A_{\text{CET}} = 0.1964$$

ET Sting cavity base area

TEST : 0A12 / 1A9

TABLE I.

DATE : May, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	4.0×10^6	540	120° NOM.
0.9	4.5	800	
1.1	4.0	800	
1.25	3.0	630	
1.4	3.0	650	
1.55	2.8	600	
2.0	2.3	490	
2.5	1.5	300	
3.0	2.0	350	Y
3.5	2.0	300	

FIVE (5) TASK CORPORATION BALANCES
BALANCE UTILIZED: WITH CAPACITIES AS FOLLOWS:

	ISOLATED ORBITER		INTEGRATED VEHICLE		
	MARK XXA	MARK XXB	ORB MARK XXA	SRB MARK XX	ET MARK IIB
N _F	3000	3000	2400	1250	4000
N _A	3000	3000	2400	1250	4000
Y _F	1500	1500	1200	500	2000
Y _A	1500	1500	1200	500	2000
X	600	600	1500	200	1000
R	4000	4000	4000	1000	10,000
SIZE	2.5"	2.5"	2.5"	1.5"	4.0"

COMMENTS: THE MARK XXA, 2.5IN. DIA. BALANCE WAS
DAMAGED AFTER RUN 319. THE MARK XXB WAS
SUBSTITUTED FOR RUN 320 AND SUBSEQUENT RUNS

TABLE II.

TEST: ARC 11-707(IA9A)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 4-27-73						
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	δ_e	δ_R	δ_{FR}	L_0		0.6	0.9	1.1	1.25	1.4					
RBMx 01	$\phi_{2A} + S_3 + T_9$	A	0	0	0	0	1.5	4	3	5	6	7						
02		A	0	~	~	~	0.5	5	8	18	28	38	48					
03		-8	B				~	4	9	19	29	39						
04		-6	~					~	10	20	30	40						
05		-4							11	21	31	41						
06		-2						~	12	22	32	42						
07		0						5	13	23	33	43	49					
08		2						4	14	24	34	44						
09		4						~	15	25	35	45						
10		6							16	26	36	46						
11		8	~					~	17	27	37	47						
12		-8	C		-5			2			97	102						
13		-6	~		~			~			118	111						
14		-4									98	103						
15		-2									117	112						
16		0									99	104						
17		2									116	113						
18		4	~					~			100	105						

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α OR β

SCHEDULES

$\alpha A = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta B = -8, -6, -4, -2, 0, 2, 4, 6, 8$

COEFFICIENTS

$\beta C = -8, -4, 0, 4, 8$

IDVAR (1)

IDVAR (2)

NDV

TABLE II. CONTINUED

TEST : ARC - 11 - 707 (IA 9A)				DATA SET/RUN NUMBER COLLATION SUMMARY					DATE : 4-21-78									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	δe	δR	δFR	C_0		0.6	0.9	1.1	1.25						
RBMx 19	$\phi_{2A} + S_3 + T_7$	6	C	0	-5	0	0.5	2			115	114						
20		8	T	T	-5	T	T	T			101	106						
21		-8			-10						60	69						
22		-6									61	70						
23		-4									62	71						
24		-2									63	72						
25		0									64	73						
26		2									65	74						
27		4									66	75						
28		6									67	76						
29		8									68	77						
30		-8			-15						78	88						
31		-6									79	89						
32		-4									80	90						
33		-2									81	91						
34		0									82	92						
35		2									83	93						
36		4									84	94						

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TABLE II. CONTINUED

33

TABLE II. CONTINUED

TEST: ARC 97-707(IA9B)		DATA SET/RUN NUMBER COLLATION SUMMARY								DATE: 5-17-73									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
		α	β	δe	δR	i_0	δR_F		1.55	2.0									
RB0x01	$\theta_{2A} + S_3 + T_9$	A	0	0	0	0.5	0	2	341	351									
02		8	B	T	T	T	T	T	342	360									
03		6	T						343	359									
04		4							344	358									
05		2							345	357									
06		0							346	356									
07		-2							347	355									
08		-4							348	354									
09		-6							349	353									
10		-8							350	352									
11		-8	C		-15				361	367									
12		-4	T		T				362	368									
13		0							363	369									
14		4							364	370									
15		6							365	371									
16		8							366	372									
17		-8			-10				373	379									
18		-4			-10				374	380									

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α OR β

SCHEDULES

$\alpha(A) = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta(B) = 8, 6, 4, -4, -6, -8$

COEFFICIENTS

$\beta(C) = 8, 6, 4, 0, -4, -6, -8$

IDVAR (1)

IDVAR (2)

NDV

TABLE II. CONTINUED

52

TABLE II. CONTINUED

TEST: ARC 8x7-707 (IA9C)			DATA SET/RUN NUMBER COLLATION SUMMARY							DATE: 5-1-73									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
		α	β	δe	δR	δFR	L_0			2.5	3.0	3.5							
RBNx01	$\theta_{2A} + S_3 + T_9$	A	0	0	0	0	0.5	3		240	230	220							
02		-8	B	T	T	T	T	T		241	231	221							
03		-6	T							242	232	222							
04		-4								243	233	223							
05		-2								244	234	224							
06		0								245	235	225							
07		2								246	236	226							
08		4								247	237	227							
09		6								248	238	228							
10		8	▼		▼					249	239	229							
11		-8	C		-15					267	256	250							
12		-4	T		T					266	257	251							
13		0								265	258	252							
14		4								264	259	253							
15	▼	6	▼	▼	▼	▼	▼	▼		263	260	254							
16	▼	8	▼	▼	▼	▼	▼	▼		262	261	255							

TEST RUN NUMBERS

TABLE II. CONTINUED

27

TABLE II. CONTINUED

TEST : AMES 11-707 (0A12A)			DATA SET/RUN NUMBER COLLATION SUMMARY										DATE : 4-23-73					
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	δ_e	δ_R	δ_{FR}			0.6	0.9								
RBPx01	B ₁₀ C ₅ D ₇ N ₂ F ₄ M ₃ N ₈ V ₅ R ₅ W ₈ E ₁₈	A	0	0	0	0		2	119	125								
02		0	B						120	126								
03		5							121	127								
04		10							122	128								
05		15							123	129								
06		20							124	130								
07		0	C		-10				131	136								
08		5							132	137								
09		10							133	138								
10		15							134	139								
11		20							135	140								
12		0			-20				141	146								
13		5							142	147								
14		10							143	148								
15		15							144	149								
16		20							145	150								
17		0	D	10	0				151	156								
18		5	D	10	0				152	160								

1756

6761554943373125191371

COEFFICIENTS

α OR β

SCHEDULES

α A = MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = 8, -4, 0, 4, 8

β D = -10, 0, 10

IDVAR (1)

IDVAR (2)

NDV

β E = -5, 0, 5

TABLE II. CONTINUED

TEST : AMES 11-707 (0A12A)				DATA SET/RUN NUMBER COLLATION SUMMARY										DATE : 4-23-73				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	δe	δR	δFR			0.6	0.9								
RBPx19	B ₁₀ C ₅ D ₇ N ₂ F ₄ M ₃ N ₈ V ₅ R ₅ W ₈ E ₁₈	10	D	+10	0	0		2	153	157								
20		15	T	T	T	T		T	154	159								
21		20	T	T	T	T		T	155	158								
22		0	C	-10				T	161	166								
23		5	T	T	T	T		T	162	167								
24		10	T	T	T	T		T	163	168								
25		15	T	T	T	T		T	164	169								
26		20	T	T	T	T		T	165	170								
27		-4	E	-20				T	171	182								
28		0	C					T	172	181								
29		5	T	T	T	T		T	173	180								
30		10	T	T	T	T		T	174	179								
31		15	T	T	T	T		T	175	178								
32		20	T	T	T	T		T	176	177								
33		-4	E	0	0	40		T	183	189								
34		0	C	T	T	T		T	184	190								
35		5	T	T	T	T		T	185	191								
36		10	T	T	T	T		T	186	192								

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TEST RUN NUMBERS

TABLE II. CONTINUED

TEST : AMES 11-707 (0A12A)			DATA SET/RUN NUMBER COLLATION SUMMARY										DATE : 4-23-73					
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
		α	β	δ_e	δ_R	δ_{FR}		0.6	0.9	1.1	1.25	1.4						
RBPx37	$B_{10} G_5 D_7 N_2 F_4 M_3 N_8 V_6 R_5 W_7 F_{18}$	15	C	0	0	40		187	193									
38		20	C			40		188	194									
39		F	0			0				199	197	195						
40		0.5	G							200	198	196						
41		-4	E		-10			201	202									
42		-4	E		-20			203	204									
43		-4	E	10	0	0		205	206									
44		-4	E	-10				207	208									
45		-4	E	0				210	209									
46		H	0					216	211									
47		-5	I					215	212									
48		-10	I					214	213									

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICIENTS

$\alpha_F = -4.5, -3.5, -1.5, 0.5, 2.5, 4.5, 6.6, 8.6, 10, 15$

$\beta_G = -8, -4, -2, 0, 2, 4, 8$

IDVAR (1) IDVAR (2) NDV

$\alpha_H = 0, -5, -10, -15$

$\beta_I = -10, -5, 5, 10$

TABLE II. CONTINUED

TEST: 87-707 (0A12C)			DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 5-9-73					
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
		α	β	δe	δR	δFR		2.5	3.5									
RBQx01	B10C5D7N2F4M3N8V5R3W9718	A	0	0	0	40		2	290	286								
02		0	B	T	T	T		T	293	289								
03		10	C						292	288								
04		20	C						291	287								
05		0	D		-20				297	294								
06		10	T		T				298	295								
07		20							299	296								
08		0		10	0				303	300								
09		10		T	T				304	301								
10		20							305	302								
11		0		-20					309	306								
12		10		T					310	307								
13		20							311	308								
14		0		-40					317	314								
15		10		T					318	315								
16		20							319	316								
17		E	0	0					322	320								
18		30	D	0					323	321								

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α OR β

SCHEDULES

$\alpha A = 0, 5, 10, 15, 20$

$\beta B = 3, -3$

COEFFICENTS

$\beta C = 6, 3, -3, -6$

$\beta D = 6, 3, 0, -3, -6$

IDVAR (1)

IDVAR (2)

NDV

31

TEST RUN NUMBERS

TABLE II. CONCLUDED

[illegible]

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: B10 Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter, per
Rockwell Lines VL70-000089 "B."

Scale Model = .030

DRAWING NUMBER: VL70-000089 "B"
VL70-000092, 93, 94 "A"

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length ~ IN	<u>1328.3</u>	<u>39.8490</u>
Max. Width ~ IN (@X ₀ = 1528.3)	<u>265.0</u>	<u>7.9500</u>
Max. Depth ~ IN. (@X ₀ = 1480.52)	<u>248.0</u>	<u>7.4400</u>
Fineness Ratio	<u>5.012</u>	<u>5.012</u>
Area ~ Ft ²		
Max. Cross-Sectional	<u>456.4</u>	<u>.41076</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. (CONTINUED)

MODEL COMPONENT: Canopy - C5GENERAL DESCRIPTION: 2A Configuration per Lines VL70-000092Scale Model = .030DRAWING NUMBER: VL70-000092DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (STA FWD Bulkhead)	<u>391.0</u>	<u>11.730</u>
Max. Width (T.E. Bulkhead)	<u>560.0</u>	<u>16.800</u>
Max. Depth (WP = 42.9 22 to = 500)	<u></u>	<u></u>
Fineness Ratio	<u></u>	<u></u>
Area	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

TABLE III. (CONTINUED)

MODEL COMPONENT: Manipulator Housing D-7GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000093

Scale Model = .030

DRAWING NUMBER: VL70-000093DIMENSIONS:FULL-SCALEMODEL SCALE

Length ~ IN.

881.0026.430

Max. Width ~ IN.

51.001.530

Max. Depth ~ IN.

23.00.690

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

C Fuselage BP = 0.00

WP = 500.0 IN. FS

X.426.0 to 1307.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: WING-W87 New Light Weight OrbiterGENERAL DESCRIPTION: Orbiter Configuration Per Lines VL70-000093.NOTE: (Dihedral Angle is defined at the lower surface of the Wing at the 75.33% element line projected into a plane perpendicular.Scale Model = .030TEST NO.DWG. NO. VL70-000093DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo.)	Ft ²		
Planform		2690.00	2.42100
Span (Theo)	In.	936.68	28.10040
Aspect Ratio		2.265	2.265
Rate of Taper		1.177	1.177
Taper Ratio		0.200	0.2000
Dihedral Angle, degrees		3.5000	3.500
Incidence Angle, degrees		3.000	+3.00
Aerodynamic Twist, degrees		3.500	+3.000
Sweep Back Angles, degrees			
Leading Edge		45.00	45.00
Trailing Edge		-10.24	-10.24
0.25 Element Line		35.209	35.209
Chords:			
Root (Theo) B.P.O.O.		689.24	20.67720
Tip, (Theo) B.P.	468.34	137.85	4.13550
MAC		474.81	14.24430
Fus. Sta. of .25 MAC		1136.89	34.10670
W.P. of .25 MAC		299.20	8.97840
183.13 B.L. of .25 MAC		182.13	5.46390

EXPOSED DATA

Area (Theo)	Ft ²	1752.29	1.57706
Span, (Theo)	In. BP108 to 468.341	720.68	21.62040
Aspect Ratio		2.058	2.058
Taper Ratio		.2451	.2451
Chords			
Root BP108		562.40	16.8720
Tip 1.00 $\frac{b}{2}$		137.85	4.13550
MAC		393.03	11.79090
Fus. Sta. of .25 MAC		1185.31	35.55930
W.P. of .25 MAC		300.207	9.00621
B.L. of .25 MAC		143.76	4.31280
Airfoil Section (Rockwell Mod NASA)			
XXXX-64			
Root $\frac{b}{2}$ = .425		.10	.10
Tip $\frac{b}{2}$ = 1.00		.12	.12

Data for (1) of (2) Sides

Leading Edge Cuff			
Planform Area	Ft ²	120.33	.10830
Leading Edge Intersects Fus M. L. @ Sta		560.0	16.80
Leading Edge Intersects Wing @ Sta		1035.0	31.050

TABLE III. (CONTINUED)

MODEL COMPONENT: Elevon E-18GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL 70-000093Data for (1) of (2) SidesScale Model = .030DRAWING NUMBER: VL 70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ Ft ²	<u>205.52</u>	<u>.18497</u>
Span (equivalent) ~ IN.	<u>353.34</u>	<u>10.60020</u>
Inb'd equivalent chord	<u>114.78</u>	<u>3.44340</u>
Outb'd equivalent chord	<u>55.00</u>	<u>1.6500</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.208</u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u>.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.24</u>	<u>-10.24</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) Ft ³	<u>1548.07</u>	<u>.04180</u>
Product of Area Moment		

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V5 (Light Weight Orbiter Configuration)GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with Rounded Leading Edge

Scale Model = .030

DRAWING NUMBER: VL70-000095DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo) Ft ²	413.25	.37192
Planform		
Span (Theo) In	315.72	9.47160
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	.404	.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	8.05500
Tip (Theo) WP	108.47	3.25410
MAC	199.81	5.99430
Fus. Sta. of .25 MAC	1463.50	43.90500
W. P. of .25 MAC	635.522	19.06566
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius IN.	2.00	.06
Void Area Ft ²	13.17	.01185
Blanketed Area Ft ²	12.67	.01140

TABLE III. (CONTINUED)

MODEL COMPONENT: R-5 RudderGENERAL DESCRIPTION: ZA Configuration per Rockwell Lines VL 70-000095Scale Model = .030DRAWING NUMBER: VL 70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area \sim Ft ²	<u>106.38</u>	<u>.09574</u>
Span (equivalent) \sim IN.	<u>201.0</u>	<u>6.030</u>
Inb'd equivalent chord	<u>91.585</u>	<u>2.74755</u>
Outb'd equivalent chord	<u>50.833</u>	<u>1.52499</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line) \sim Ft ³	<u>526.13</u>	<u>.01421</u>
Product of Area and Mean Chord		

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod -M3

GENERAL DESCRIPTION: 2A Light Weight Configuration per Rockwell Lines

VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>346.0</u>	<u>10.380</u>
Max. Width $X_{\perp} = 1450.0$	<u>108.0</u>	<u>3.240</u>
Max. Depth $X_o = 1500.0$	<u>113.0</u>	<u>3.390</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

E of OMS Pod

WP = 463.9 IN. FS WP 400 + 63.9 = 463.9

BP = 80.0 IN. FS

Length 1214.0 to 1560.0' = 346.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: F4 Body Flap

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>84.70</u>	<u>2.541</u>
Max. Width	<u>265.00</u>	<u>7.950</u>
Max. Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area ~ Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>142.64</u>	<u>.12838</u>
Wetted	<u> </u>	<u> </u>
Base Ft ²	<u>38.65</u>	<u>.03478</u>

TABLE III. (CONTINUED)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : S3-Booster Solid Rocket MotorGENERAL DESCRIPTION : 2A Configuration Per Rockwell Lines VL77-000012
& VL72-000061 "B"Body of Revolution; Data for (1) of (2) SidesScale Model = .030DRAWING NUMBER : VL 77-000012

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ~IN.	<u>1732.0</u>	<u>51.96</u>
Max Width (DIA) IN. BSRM Tank	<u>142.0</u>	<u>4.260</u>
Max Depth (DIA) Aft Skirt	<u>259.0</u>	<u>7.77</u>
Finessess Ratio L/D	<u>6.687</u>	<u>6.687</u>
Area ~ Ft ²	<u> </u>	<u> </u>
Max. Cross--Sectional (Aft Skirt)	<u>365.87</u>	<u>.32928</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

Ref.

FS (Orbiter) = 0.00 = 747.99 IN. FT = 200.0 IN. BSRM

WP (BSRM) = WP 400(Orbiter) - 344.413 = 55.587 IN.

BP (Orbiter) = 0.00 = 243.0 IN. BSRM

TABLE III. (CONCLUDED)

MODEL COMPONENT: EXTERNAL TANK - T9GENERAL DESCRIPTION: 2A ConfigurationNOTE: T9 identical to T8 W/O retro pkg., nose w/30"R F.S.

DRAWING NUMBER

NONEDIMENSION:FULL SCALEMODEL SCALE

Length - IN.

185855.740

Max Width (Dia) - IN.

324.09.720

Max Depth

Fineness Ratio L/D

5.734575.73457Area - FT²

Max Cross-Sectional

572.560.51530

Planform

Wetted

Base

Nose, Radius, IN.

30.0

ORBITER BODY

ORBITER STATION ~ X _o			RADIAL LOCATION θ ~ DEGREES																	
FULL	MODEL	X _o /l _o	0	20	40	55	70	90	105	110	120	135	142	150	157	162	165	169	172	180
200	6.00	0	20																	23
210	6.30	.008	21					22												32
225	6.75	.019	24	25	26	27	28	29			30			31						41
245	7.35	.034	33	34	35	36	37	38			39			40						50
280	8.40	.060	42	43	44	45	46	47			48			49						59
380	11.40	.136	51	52	53	54	55	56			57			58						
400	12.00	.151																		
410	12.30	.158																		
430	12.90	.173	62	63	64	65	66	67			68			69	61	70		71		72
460	13.80	.196											73							
500	15.00	.226	74	75	76	77	78	79			80			81			82			83
560	16.80	.271	84		85		86	87			88			89			90			91
625	18.75	.320	92		93		94	95			96			97			98			99
725	21.75	.395	100		101		102	103			104			105			106			107
880	26.40	.512	108		109		110	111			112			113			114			115
980	29.40	.587	116		117															
1080	32.40	.662			118		119	120			121			122			123			124
1180	35.40	.738					125	126			127			128						129
1245	37.35	.787			130		131	132	133		134	135		136			137			138
1300	39.00	.828			139		140	141	142		143	144		145			146			
1375	41.25	.885			147		148	149	150		151	152		153			154			
1430	42.90	.926			155		156	157	158		159	160		161			162			
1480	44.40	.964	163				164	165	166		167	168		169			170			
1530 ^a	45.90	1.001								171	173									
1530 ^b	45.90	1.001								172	174									

a OMS POD, INSIDE

b OMS POD, OUTSIDE

a. Orbiter body

Table IV. Pressure Orifice Locations

ORBITER BASE

LOCATION	ORIFICE NUMBERS
ORBITER BASE (INTEGRATED)	1, 2, 3, 4
LEFT MPS NOZZLE BASE	5
UPPER MPS NOZZLE BASE	6
ACPS BASE AREA ON OMS POD	7
OMS NOZZLE BASE	8
OMS POD BASE	9
ORBITER BASE (STING MOUNT)	11, 12, 13, 14
ORBITER STING CAVITY	15, 16

BODY FLAP LWR SURFACE

ORB. STA. ~ X _o		$\theta \sim \text{DEG}$	
FULL	MODEL	0	40
1580	47.40	175	176

MPS NOZZLE

X ~ IN. FWD BASE		$\theta \sim \text{DEG}$					
FULL	MODEL	0	90	135	180	225	270
25	0.75	181	182	183	184	185	186
50	1.50	187	188	189	190	191	192
75	225		193	194	195	196	197

OMS NOZZLE

X ~ IN FWD BASE		$\theta \sim \text{DEG}$		
FULL	MODEL	135	180	225
10	0.30	177	178	179
20	0.60		180	

VERTICAL TAIL

WATER PLANE ~ Z _o				X/C ~ THEORETICAL VERTICAL CHORD							
FULL	MODEL	ηv		0	.05	.15	.30	.52	.65	.775	.90
525	15.75	.079		400							
550	16.50	.158	L R	410	411 511	412 512	413 513	414 514	415 515	416 516	
600	18.00	.316	L R	420	421 521	422 522	423 523	424 524	425 525	426 526	427 527
690	20.70	.60	L R	430	431 531	432 532	433 533	434 534	435 535	436 536	437 537
765	22.95	.84	L R	440	441 541	442 542	443 543	444 544	445 545	446 546	447 547
792	23.76	.925	L R	450	451 551	452 552	453 553	454 554	455 555	456 556	457 557

b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail

Table IV. Continued.

ORBITER WING

ORBITER B.P. - Y			X/C - THEORETICAL WING CHORD																						
FULL	MODEL	Y		-.49	-.35	-.25	-.15	-.033	0.0	.05	.15	.25	.40	.55	.60	.65	.70	.725	.75	.775	.80	.85	.90	.95	
140	4.20	.299	U L	200	201 301		202 302			203 303		204 304		205 305					206 306		207 307	208 308		209 309	
170	5.10	.364	U L			210	211 311			212 312															
200	6.00	.427	U L					220		221 321	222 322		223 323	224 324					225 325		226 326	227 327	228 328	229 329	
250	7.50	.534	U L						230	231 331	232 332	233 333	234 334	235 335				236 336		237 337		238 338	239 339	240 340	
315	9.45	.673	U L						250	251 351	252 352	253 353	254 354	255 355			256 356		257 357		258 358		259 359		
365	10.95	.780	U L						260	261 361	262 362	263 363				264 364			265 365		266 366		267 367		
415	12.45	.887	U L						270	271 371	272 372	273 373	274 374		275 375				276 376				277 377		

U - UPPER SURFACE

L - LOWER SURFACE

Y	X/C LOCAL WING CHORD
.299	0, .094, .229, .362, .497, .700, .834, .865, .900, .965
.364	0, .086, .246
.427	0, .081, .177, .402, .565, .760, .808, .857, .905, .953
.534	SAME AS THEORETICAL CHORD ↓
.673	
.780	
.887	

c. Orbiter Wing

Table IV. Continued.

EXTERNAL TANK

TANK STA ~ XT			$\theta \sim \text{DEG}$									
FULL	MODEL	XT/LT	0	30	60	90	120	135	150	165	180	270
316.	9.48	0	610									
317.7	9.53	.001	611			614					619	620
400	12.00	.045	621	622	623	624	625		627		629	
520	15.60	.110	631	632	633	634	635		637	638	639	
640	19.20	.174	641	642	643	644	645		647	648	649	
670	20.10	.191	651	652	653	654	655		657	658	659	
710	21.30	.212	661	662	663	664	665		667	668	669	
750	22.50	.234	671	672	673	674	675	676	677	678	679	
850	25.50	.287	681	682	683	684	685		687	688	689	
950	28.50	.341	691	692	693	694	695	696	697	698	699	
1050	31.50	.395	701	702	703	704	705		707	708	709	
1150	34.50	.449	711	712	713	714	715	716	717		719	
1250	37.50	.503	721	722	723	724	725		727	728	729	
1350	40.50	.557	731	732	733	734	735	736	737		739	
1500	45.00	.637	741	742	743	744	745		747	748	749	
1700	51.00	.745	751	752	753		755	756	757		759	
1900	57.00	.853	761	762	763		765	766	767	768		
2040	61.20	.929	771	772	773	774	775	776	777	778		
STING CAVITY			601									
BASE			602			603					604	

d. External Tank
Table IV. Continued.

LEFT SRM

SRM STATION ~ XS			$\theta \sim \text{DEG}$							
FULL	MODEL	XS/Ls	0	45	90	135	180	225	270	315
200	6.00	0	810							
260	7.80	.034	811	812	813	814	815	816	817	818
370	11.10	.097	821	822	823	824	825	826	827	828
400	12.00	.114	831	832	833	834	835	836	837	838
450	13.50	.142	841	842	843	844	845	846	847	848
550	16.50	.199	851	852	853	854	855	856	857	858
700	21.00	.284	861		863		865	866	867	868
850	25.50	.370	871		873		875		877	
1050	31.50	.484	881		883		885			
1250	37.50	.597	891		893		895			
1450	43.50	.711	901		903		905		907	
1650	49.50	.825	911		913		915		917	
1750	52.50	.882	921	922	923	924	925	926	927	928
1790	53.70	.904	931	932	933	934	935	936	937	938
1850	55.50	.939	941	942	943	944	945	946	947	948
1900	57.00	.967	951	952	953	954	955	956	957	958
NOZZLE BASE			801							
SKIRT BASE			802		803		804		805	

e. Left SRM

Table IV. Concluded.

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

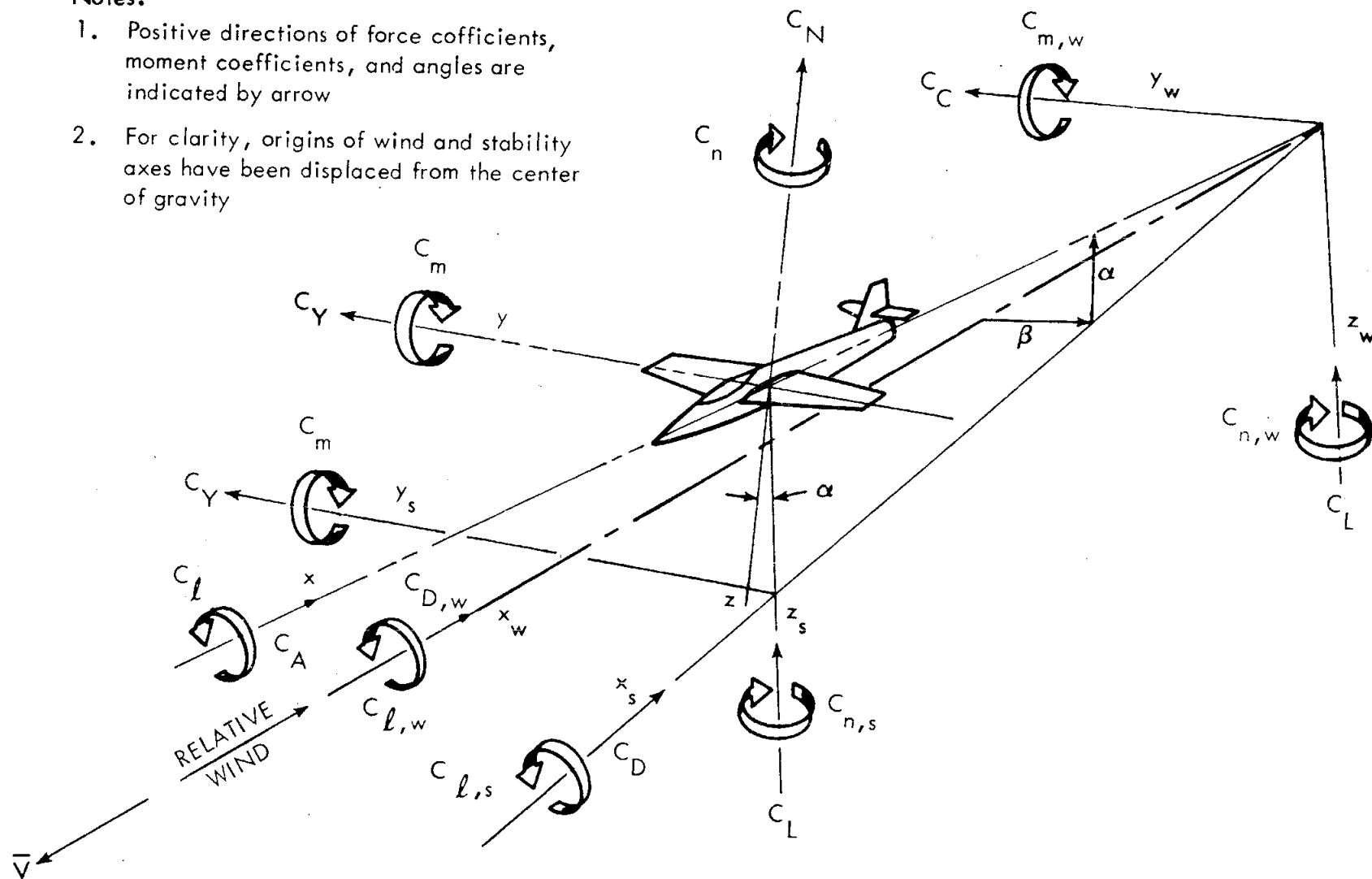
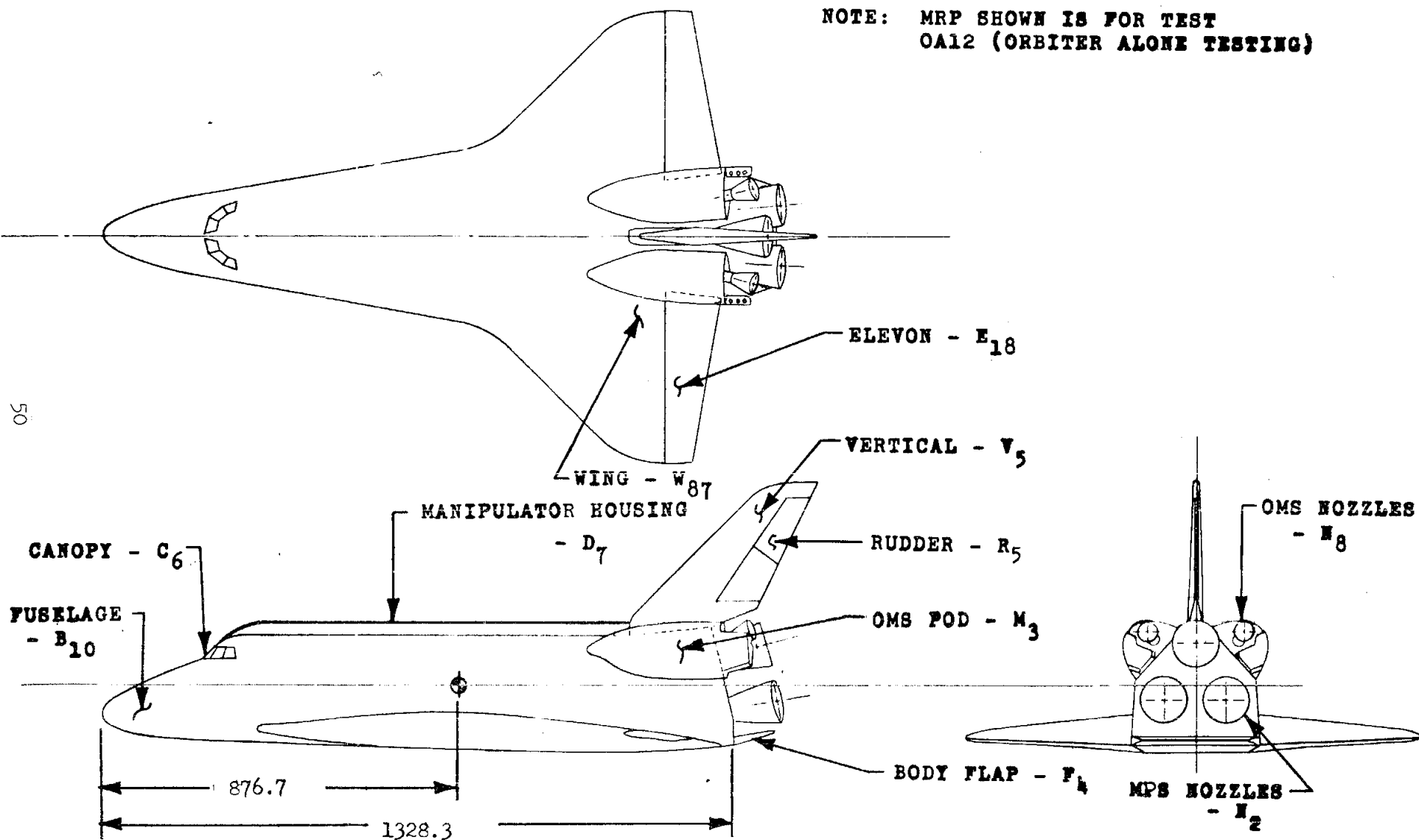
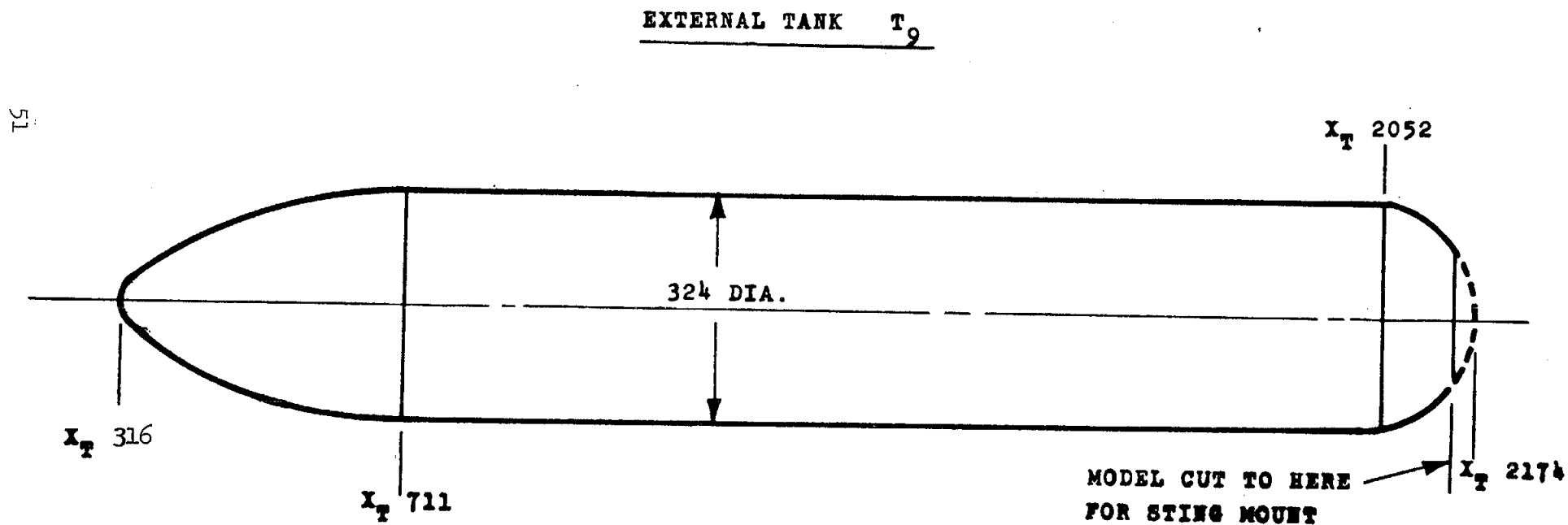
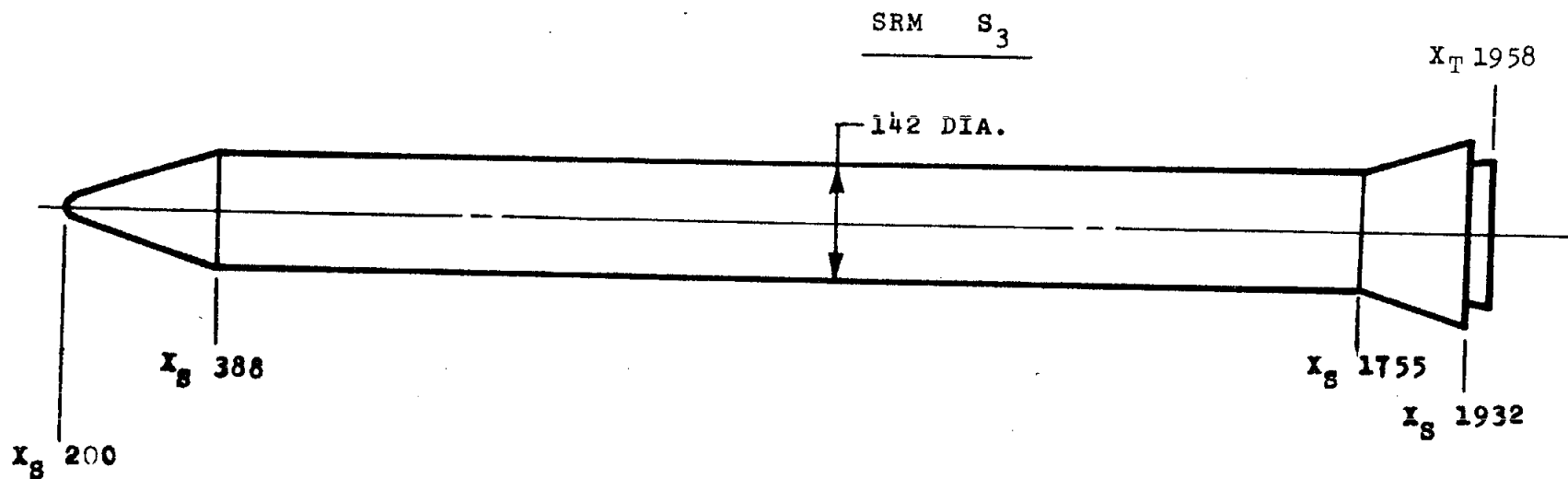


Figure 1. - Axis Systems.



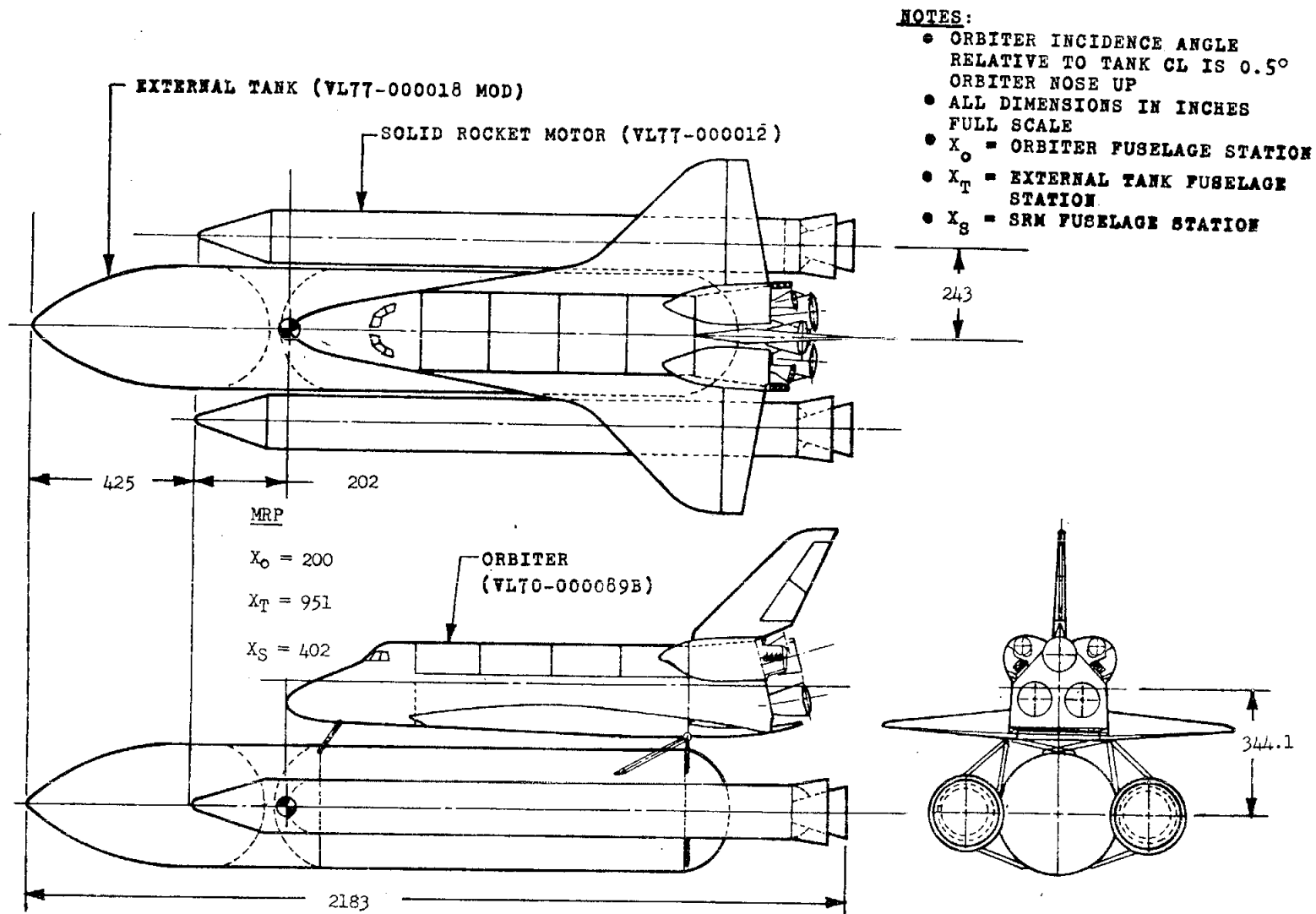
a. Orbiter, O_{2A}

Figure 2. - Model Sketches.



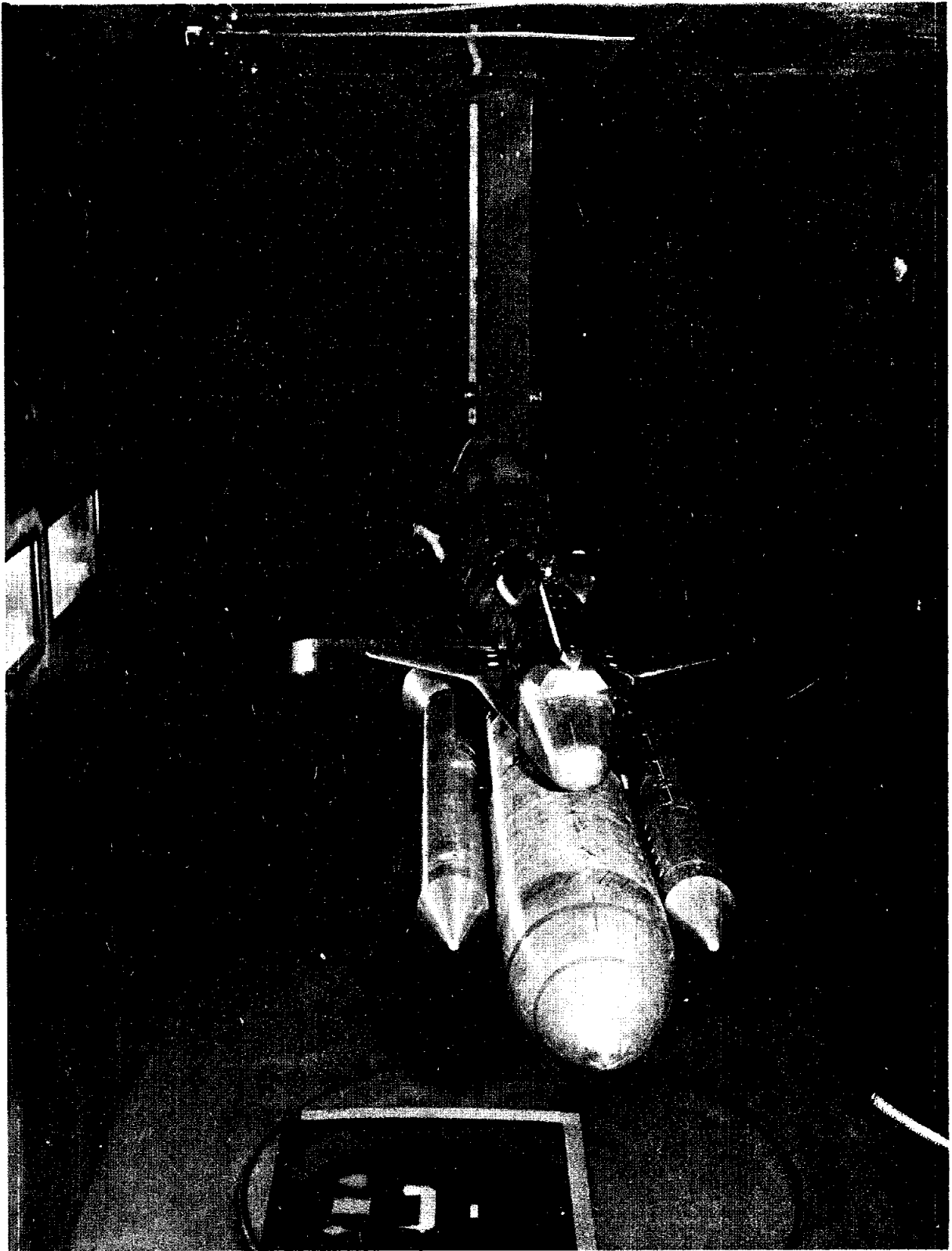
b. SRM, S_3 , and External Tank, T_9

Figure 2. - Continued.



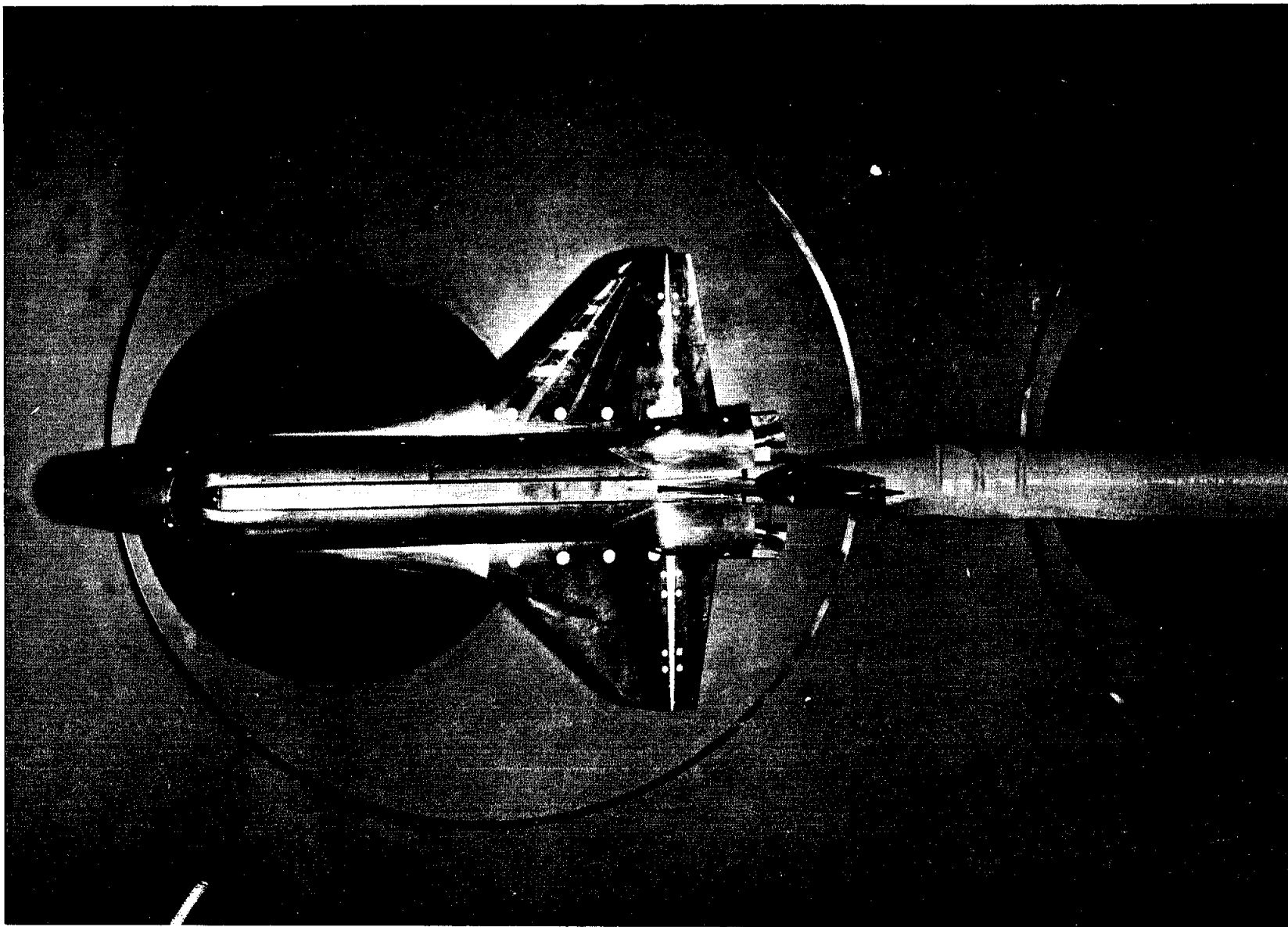
c. Integrated Vehicle

Figure 2. - Concluded.



a. Integrated (Launch) Vehicle Mounted in the ARC 9x7 Ft. Tunnel

Figure 3. - Model Installation Photographs



3. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8x7 Ft. Tunnel

Figure 3. - Concluded.

TABULATED PRESSURE DATA

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 956

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUD1) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(1) = -8.400

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0480	.0040	.1250	.4840	.4550	.4240	.3900
.050				.2460	.3110	.3340	.3650
.081			.1550				
.086		.0600					
.094	.0560						
.150				.0560	.0880	.0810	.1040
.177			.0710				
.229	.0670						
.246		-.0010					
.250				-.0440	-.0430	-.0020	-.0160
.362	.0380						
.400				-.1570	-.1430		-.1080
.402			-.1350				
.497	-.0500						
.550				-.2030	-.2110		
.565		-.1400					
.600							-.2520
.650						-.2430	
.700	-.0450				-.2330		
.725				-.0090			
.750						-.2480	-.2920
.760			.0320				
.775				.0460	-.1990		
.808		.0500					
.834	.1160						
.850				.0740	-.0050	-.2100	
.857			.0470				
.865	.0100						
.900	.0370			.0720			-.2150
.905			.0530				
.950				.0840	.1050	-.0360	
.953			.0660				
.965	.0500						

MACH (1) = 1.555 ALPHAT(2) = -6.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0830	.0000	.1630	.5510	.4820	.4610	.4370
.050				.1690	.2510	.2790	.3200
.081			.1070				
.086		.0430					
.094	.0010						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IASB

PAGE 957

AMES 97-707 IAS OEA + S3 + T3 UPPER WING

(R80001)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(2) = -6.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0040	.0300	.0310	.0560
.177			.0160				
.229	.0390						
.246		-.0240					
.250				-.0930	-.0950	-.0530	-.0690
.362	.0090						
.400				-.1970	-.1900		-.1520
.402			-.1710				
.497	-.0740						
.550				-.2440	-.2440		
.565			-.1790				
.600							-.2860
.650						-.2790	
.700	-.0840				-.2640		
.725				-.0780			
.750						-.2830	-.3140
.760			-.0090				
.775				-.0170	-.2610		
.808			.0130				
.834	.0640						
.850				.0290	-.0750	-.2490	
.857			.0160				
.865	-.0210						
.900	.0070			.0380			-.2470
.905			.0160				
.950				.0540	.0270	-.1400	
.953			.0350				
.965	.0170						

MACH (1) = 1.555 ALPHAT(3) = -4.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1040	-.0030	.1960	.5250	.5060	.5270	.5250
.050				.1120	.2030	.2310	.2800
.081			.0630				
.086		.0280					
.094	-.0360						
.150				-.0390	-.0100	-.0120	.0120
.177			-.0280				
.229	.0150						
.246		-.0460					
.250				-.1220	-.1320	-.0970	-.1120
.362	-.0140						
.400				-.2210	-.2180		-.1890
.402			-.1970				
.497	-.0910						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU01)

SECTION (1) UPPER WING

DEPENDENT VARIABLE 'CP

MACH (1) = 1.555 ALPHAT(3) = -4.250		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.2630	-.2770		
		.565			-.2060				
		.600							-.3140
		.650						-.3120	
		.700	-.1190				-.2940		
		.725			-.1240				
		.750						-.3140	-.3350
		.760			-.0480				
		.775				-.0610	-.2920		
		.808			-.0160				
		.834	.0070						
		.850				-.0080	-.1470	-.2810	
		.857			-.0020				
		.865	-.0400						
		.900	-.0150			.0130			-.2820
		.905			.0090				
		.950				.0370	-.0410	-.2240	
		.953			.0190				
		.965	-.0030						
MACH (1) = 1.555 ALPHAT(4) = -2.190		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1230	-.0170	.2160	.5530	.5460	.5820	.5780
		.050				.0360	.1220	.1630	.2170
		.081			.0210				
		.086		.0090					
		.094	-.0640						
		.150				-.0950	-.0620	-.0600	-.0420
		.177			-.0740				
		.229	-.0140						
		.246		-.0720					
		.250				-.1780	-.1840	-.1520	-.1620
		.362	-.0380						
		.400				-.2620	-.2700		-.2370
		.402			-.2240				
		.497	-.1130						
		.550				-.3000	-.3090		
		.565			-.2300				
		.600							-.3450
		.650						-.3450	
		.700	-.1540				-.3220		
		.725				-.1770			
		.750						-.3490	-.3560
		.760			-.0830				
		.775				-.1120	-.3200		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU01)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(4) = -2.190

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0420				
.834	-.0270						
.850				-.0670	-.2120	-.3260	
.857			-.0280				
.865	-.0570						
.900	-.0340			-.0340			-.3050
.905			-.0190				
.950				.0000	-.0950	-.2600	
.953			-.0060				
.965	-.0170						

MACH (1) = 1.555 ALPHAT(5) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1410	-.0420	.2290	.5910	.6260	.6470	.6100
.050				-.0110	.0380	.0750	.1410
.081			-.0330				
.086		-.0190					
.094	-.0820						
.150				-.1390	-.1160	-.1110	-.0880
.177			-.1270				
.229	-.0430						
.246		-.1040					
.250				-.2210	-.2250	-.2100	-.2050
.362	-.0690			-.2830	-.3080		-.2780
.400			-.2530				
.402							
.497	-.1340						
.550				-.3160	-.3500		
.565			-.2640				
.600							-.3750
.650						-.3810	
.700	-.1880				-.3590		
.725				-.1990			
.750						-.3870	-.3820
.760			-.1250				
.775				-.1360	-.3540		
.808			-.0810				
.834	-.0510						
.850				-.1040	-.3000	-.3630	
.857			-.0460				
.865	-.0760						
.900	-.0560			-.0770			-.3000
.905			-.0310				
.950				-.0390	-.1190	-.3090	
.953			-.0170				

AMES 97-707 1A9.02A + S3 + T9 UPPER WING

(RBOUD1)

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP							
MACH (1) = 1.555	ALPHAT(5) = -.120	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	-.0340						
MACH (1) = 1.555	ALPHAT(6) = 1.950	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1730	-.1160	.2490	.6800	.6350	.6580	.6130
		.050				-.0770	-.0040	.0110	.0530
		.081			-.0970				
		.086		-.0520					
		.094	-.0900						
		.150				-.2160	-.1730	-.1650	-.1500
		.177			-.1870				
		.229	-.0670						
		.246		-.1320					
		.250				-.2900	-.2850	-.2560	-.2570
		.362	-.0930						
		.400				-.3390	-.3650		-.3140
		.402			-.2810				
		.497	-.1450						
		.550				-.3560	-.4010		
		.565			-.2880				
		.600							-.3990
		.650						-.4180	
		.700	-.2180				-.4040		
		.725				-.2330			
		.750						-.4230	-.4070
		.760			-.1630				
		.775				-.1630	-.3970		
		.808			-.1180				
		.834	-.0630						
		.850				-.1430	-.3600	-.4030	
		.857			-.0810				
		.865	-.0900						
		.900	-.0700			-.1250			-.3330
		.905			-.0550				
		.950				-.0990	-.2050	-.3600	
		.953			-.0370				
		.965	-.0480						
MACH (1) = 1.555	ALPHAT(7) = 4.010	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1920	-.1700	.2360	.6930	.6420	.6570	.6020
		.050				-.1550	-.1020	-.0780	-.0170
		.081			-.1480				
		.086		-.0730					
		.094	-.0910						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOUND)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT (7) = 4.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2650	-.2240	-.2250	-.2080
.177			-.2450				
.229	-.0910						
.246		-.1990					
.250				-.3430	-.3200	-.3000	-.3020
.362	-.1080						
.400				-.3830	-.3910		-.3440
.402			-.3070				
.497	-.1540						
.550				-.3890	-.4350		
.565			-.3080				
.600							-.4150
.650						-.4390	
.700	-.2450				-.4380		
.725				-.3040			
.750						-.4400	-.4220
.760			-.2060				
.775				-.1870	-.4270		
.808			-.1690				
.834	-.0610						
.850				-.1550	-.4080	-.4220	
.857			-.1240				
.865	-.0880						
.900	-.0740			-.1420			-.3730
.905			-.0770				
.950				-.1270	-.3320	-.3830	
.953			-.0470				
.965	-.0550						

MACH (1) = 1.555 ALPHAT (8) = 6.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2060	-.2260	.1780	.6850	.6300	.6570	.5360
.050				-.2280	-.1700	-.1420	-.1270
.081			-.2170				
.086		-.1070					
.094	-.0960						
.150				-.3180	-.2820	-.2780	-.2680
.177			-.3120				
.229	-.1120						
.246		-.1910					
.250				-.3900	-.3660	-.3410	-.3500
.362	-.1260						
.400				-.4280	-.4270		-.3860
.402			-.3290				
.497	-.1710						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU01)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(8) = 6.060		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.4360	-.4580		
		.565			-.3270				
		.600							-.4140
		.650						-.4140	
		.700	-.2720				-.4580		
		.725				-.3650			
		.750						-.4210	-.4180
		.760			-.2440				
		.775				-.2030	-.4390		
		.808			-.2240				
		.834	-.0760						
		.850				-.1740	-.4120	-.4120	
		.857			-.1730				
		.865	-.0870						
		.900	-.0720			-.1530			-.4170
		.905			-.1160				
		.950				-.1440	-.3110	-.3530	
		.953			-.0740				
		.965	-.0610						

MACH (1) = 1.555 ALPHAT(9) = 8.130		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.2350	-.2810	.1160	.6700	.6460	.6220	.4460
		.050				-.2830	-.2280	-.2240	-.2260
		.081			-.2970				
		.086		-.1480					
		.094	-.1170						
		.150				-.3680	-.3290	-.3380	-.3380
		.177			-.3800				
		.229	-.1250						
		.246		-.2200					
		.250				-.4270	-.4000	-.3870	-.3950
		.362	-.1470						
		.400				-.4540	-.4550		-.3940
		.402			-.3380				
		.497	-.1950						
		.550				-.4560	-.4400		
		.565			-.3480				
		.600							-.3910
		.650						-.4050	
		.700	-.3020				-.4350		
		.725				-.4320			
		.750						-.4160	-.4230
		.760			-.2610				
		.775				-.3920	-.4260		

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 963

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU01)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT (9) = 8.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.2490				
.834	-.0920						
.850				-.3130	-.4100	-.4040	
.857			-.2020				
.865	-.0980						
.900	-.0780			-.2610			-.4160
.935			-.1650				
.950				-.2060	-.3410	-.3720	
.953			-.1340				
.965	-.0510						

MACH (2) = 2.000 ALPHAT (1) = -8.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0560	.0290	.2650	.6230	.5370	.5250	.5710
.050				.2090	.2760	.3230	.3660
.081			.1540				
.086		.0930					
.094	.0710						
.150				.0680	.1060	.1200	.1420
.177			.0600				
.229	.0810						
.246		.0430					
.250				-.0180	-.0060	.0290	.0360
.362	.0650						
.400				-.0930	-.0930		-.0310
.402			-.0630				
.497	.0110						
.550				-.1320	-.1370		
.565			-.0980				
.644							-.1320
.650						-.1440	
.710	-.0400				-.1470		
.725				-.1390			
.750						-.1490	-.1720
.760			-.0180				
.775				-.0660	-.1460		
.808			.0150				
.834	.0750						
.850				.0030	-.1260	-.1260	
.857			.0470				
.865	.0410						
.900	.0680			.0260			-.1250
.915			.0790				
.950				.0520	-.0700	-.0920	
.953			.0960				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUQ1)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(1) = -8.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.965	.0800					

MACH (2) = 2.000 ALPHAT(2) = -6.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.0140	.0200	.2650	.6230	.5250	.5980
	.050				.1680	.2230	.2700
	.081			.1130			
	.086		.0650				
	.094	.0410					
	.150			.0240	.0630	.0810	.1070
	.177		.0170				
	.229	.0460					
	.246		.0110				
	.250			-.0550	-.0400	-.0070	.0010
	.362	.0290					
	.400			-.1200	-.1170		-.0700
	.402		-.0920				
	.497	-.0140					
	.550			-.1540	-.1630		
	.565		-.1210				
	.600						-.1570
	.650					-.1690	
	.700	-.0660			-.1720		
	.725			-.1650			
	.750					-.1760	-.1920
	.760		-.0500				
	.775			-.0960	-.1680		
	.808		-.0240				
	.834	.0360					
	.850			-.0310	-.1500	-.1560	
	.857		.0080				
	.865	.0120					
	.900	.0370		-.0070			-.1590
	.905		.0430				
	.950			.0120	-.0910	-.1210	
	.953		.0650				
	.965	.0530					

MACH (2) = 2.000 ALPHAT(3) = -4.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.0300	.0080	.2580	.6180	.5250	.6280
	.050				.1300	.1660	.2150
	.081			.0730			
	.086		.0360				
	.094	.0150					

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU01)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(3) = -4.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0230	.0210	.0440	.0770
.177			-.0220				
.229	.0130						
.246		-.0190					
.250				-.0950	-.0760	-.0450	-.0310
.362	.0000						
.400				-.1520	-.1440		-.0990
.402			-.1140				
.497	-.0370						
.550				-.1720	-.1870		
.565			-.1400				
.600							-.1830
.650						-.1930	
.700	-.0850				-.1940		
.725				-.1850			
.750						-.2000	-.2090
.760			-.0750				
.775				-.1190	-.1890		
.808			-.0540				
.834	.0050						
.850				-.0630	-.1690	-.1870	
.857			-.0300				
.865	-.0120						
.900	.0110			-.0380			-.1820
.905			.0020				
.950				-.0220	-.1140	-.1520	
.953			.0340				
.965	.0310						

MACH (2) = 2.000 ALPHAT(4) = -2.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0390	.0000	.2500	.5800	.5460	.6190	.6640
.050				.0720	.1180	.1720	.2510
.081			.0270				
.086		.0150					
.094	-.0230						
.150				-.0650	-.0210	.0040	.0460
.177			-.0670				
.229	-.0170						
.246		-.0470					
.250				-.1310	-.1110	-.0820	-.0590
.362	-.0270						
.400				-.1760	-.1770		-.1280
.402			-.1380				
.497	-.0570						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU01)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(4) = -2.210		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.1930	-.2140		
		.565			-.1610				
		.600							-.2090
		.650						-.2180	
		.700	-.1070				-.2200		
		.725				-.2020			
		.750						-.2290	-.2320
		.760			-.1030				
		.775				-.1410	-.2170		
		.808			-.0850				
		.834	-.0240						
		.850				-.0910	-.2000	-.2130	
		.857				-.0660			
		.865	-.0350						
		.900	-.0170			-.0680			-.2110
		.905			-.0360				
		.950				-.0530	-.1460	-.1870	
		.953			-.0020				
		.965	.0090						
MACH (2) = 2.000 ALPHAT(5) = -.160		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.0550	-.0230	.2300	.5800	.6180	.6490	.6820
		.050				.0040	.0950	.1600	.2150
		.081			-.0210				
		.086		-.0110					
		.094	-.0460						
		.150				-.1140	-.0690	-.0150	.0170
		.177			-.1070				
		.229	-.0360						
		.246		-.0730					
		.250				-.1750	-.1570	-.1100	-.0860
		.362	-.0480						
		.400				-.2170	-.2200		-.1490
		.402			-.1590				
		.497	-.0750						
		.550				-.2210	-.2440		
		.565			-.1770				
		.600							-.2240
		.650						-.2390	
		.700	-.1260				-.2510		
		.725				-.2260			
		.750						-.2510	-.2480
		.760			-.1220				
		.775				-.1650	-.2480		

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 967

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU01)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(5) = -1.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1070				
.834	-.0460						
.850				-.1140	-.2330	-.2430	
.857			-.1060				
.865	-.0550						
.900	-.0400			-.0920			-.2270
.905			-.0810				
.950				-.0810	-.1810	-.2230	
.953			-.0480				
.965	-.0080						

MACH (2) = 2.000 ALPHAT(6) = 1.890

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0690	-.0510	.2070	.7150	.6590	.6790	.7000
.050				-.0280	.0800	.1270	.1690
.081			-.0690				
.086		-.0300					
.094	-.0430						
.150				-.1530	-.0800	-.0410	-.0200
.177			-.1490				
.229	-.0510						
.246		-.1010					
.250				-.2160	-.1750	-.1260	-.1140
.362	-.0690						
.400				-.2540	-.2400		-.1670
.402			-.1780				
.497	-.0930						
.550				-.2500	-.2660		
.565			-.1910				
.600							-.2370
.650						-.2530	
.700	-.1440				-.2760		
.725				-.2420			
.750						-.2670	-.2580
.760			-.1400				
.775				-.1920	-.2760		
.808			-.1290				
.834	-.0680						
.850				-.1390	-.2670	-.2620	
.857			-.1250				
.865	-.0730						
.900	-.0570			-.1130			-.2390
.905			-.1060				
.950				-.0950	-.2380	-.2450	
.953			-.0770				

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOUG1)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(6) = 1.890

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0210						

MACH (2) = 2.000 ALPHAT(7) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0930	-.0940	.2320	.7580	.6800	.7000	.7030
.050				-.0490	.0240	.0780	.1290
.081			-.1010				
.086		-.0530					
.094	-.0500						
.150				-.1730	-.1130	-.0730	-.0560
.177			-.1970				
.229	-.0610						
.246		-.1250					
.250				-.2460	-.2030	-.1470	-.1400
.362	-.0860						
.400				-.2980	-.2610		-.1880
.402			-.2040				
.497	-.1080						
.550				-.3070	-.2730		
.565			-.2120				
.600							-.2470
.650						-.2610	
.700	-.1590				-.2850		
.725				-.3000			
.750						-.2740	-.2650
.760			-.1680				
.775				-.2540	-.2850		
.808			-.1550				
.834	-.0860						
.850				-.2000	-.2770	-.2660	
.857			-.1650				
.865	-.0800						
.900	-.0640			-.1720			-.2400
.905			-.1530				
.950				-.1470	-.2540	-.2570	
.953			-.1240				
.965	-.0310						

MACH (2) = 2.000 ALPHAT(8) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1270	-.1220	.2280	.7730	.6940	.7290	.7580
.050				-.0620	.0010	.0370	.0840
.081			-.1260				
.086		-.0760					
.094	-.0680						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 969

AMES 97-707 1A9 OEA + S5 + T9 UPPER WING

(R80U01)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(8) = 5.980

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150				-.1740	-.1190	-.1010	-.0850
.177			-.2190				
.229	-.0780						
.246		-.1520					
.250				-.2400	-.2010	-.1680	-.1630
.362	-.1040						
.400				-.2890	-.2570		-.2040
.402			-.2370				
.497	-.1340						
.550				-.3020	-.2830		
.565			-.2360				
.600							-.2560
.650						-.2700	
.700	-.1850				-.2880		
.725				-.2920			
.750						-.2810	-.2740
.760			-.2050				
.775				-.2740	-.2810		
.808			-.1910				
.834	-.1200						
.850				-.2480	-.2760	-.2740	
.857			-.1850				
.865	-.0930						
.900	-.0700			-.2310			-.2480
.905			-.1680				
.950				-.2100	-.2550	-.2640	
.953			-.1350				
.965	-.0320						

MACH (2) = 2.000 ALPHAT(9) = 8.020

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1320	-.1340	.2380	.7930	.7350	.7500	.7010
.050				-.0840	-.0280	.0030	.0390
.081			-.1410				
.086		-.0830					
.094	-.0770						
.150				-.1930	-.1430	-.1310	-.1120
.177			-.2300				
.229	-.0840						
.246		-.1670					
.250				-.2530	-.2180	-.1900	-.1880
.362	-.1100						
.400				-.2970	-.2710		-.2250
.402			-.2590				
.497	-.1410						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOUND1)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000	ALPHAT(9) = 8.020	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.3590	-.2930		
		.565			-.2510				
		.600							-.2700
		.650						-.2780	
		.700	-.1960				-.2890		
		.725				-.3020			
		.750						-.2810	-.2840
		.760			-.2290				
		.775				-.2920	-.2870		
		.808			-.2080				
		.834	-.1480						
		.850				-.2830	-.2860	-.2780	
		.857			-.2030				
		.865	-.0990						
		.900	-.0740			-.2750			-.2570
		.905			-.1910				
		.950				-.2590	-.2650	-.2740	
		.953			-.1610				
		.965	-.0290						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 971

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU02) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0380	-.0740	.4070	.8970	.8000	.7640	.6190
.050				-.1780	-.1850	-.1750	-.1570
.081			-.1630				
.086		-.0430					
.094	.0050						
.150				-.2950	-.2850	-.3080	-.2970
.177			-.3360				
.229	-.0440						
.246		-.1860					
.250				-.3830	-.3650	-.3600	-.3630
.362	-.1040						
.400				-.4520	-.4260		-.3910
.402			-.3990				
.497	-.1460						
.550				-.4370	-.4210		
.565			-.3430				
.600							-.3930
.650						-.3940	
.700	-.2890				-.4170		
.725				-.4250			
.750						-.4040	-.4160
.760			-.2450				
.775				-.4090	-.4000		
.808			-.2080				
.834	-.1270						
.850				-.3670	-.3820	-.3920	
.857			-.2240				
.865	-.0590						
.900	-.0250			-.3070			-.4030
.905			-.1690				
.950				-.2920	-.3300	-.3610	
.953			-.1220				
.965	.0020						

MACH (1) = 1.555 BETAT (2) = -5.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1070	-.1460	.3390	.8400	.7600	.7230	.5720
.050				-.2090	-.2100	-.1910	-.1770
.081			-.1990				
.086		-.0650					
.094	-.0370						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOUD2)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -5.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.3240	-.3060	-.3200	-.3070
.177			-.3550				
.229	-.0810						
.246		-.2120					
.250				-.4050	-.3840	-.3680	-.3710
.362	-.1200						
.400				-.4700	-.4450		-.4010
.402			-.3750				
.497	-.1750						
.550				-.4590	-.4350		
.565			-.3450				
.600							-.4160
.650						-.4030	
.700	-.2940				-.4260		
.725				-.4460			
.750						-.4170	-.4220
.760			-.2470				
.775				-.4230	-.4100		
.808			-.2090				
.834	-.1270						
.850				-.3770	-.3930	-.4080	
.857			-.2440				
.865	-.0700						
.900	-.0430			-.3450			-.4120
.905			-.1930				
.950				-.3240	-.3430	-.3790	
.953			-.1410				
.965	-.0140						

MACH (1) = 1.555 BETAT (3) = -3.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1650	-.1910	.2890	.7830	.7230	.6880	.5360
.050				-.2330	-.2120	-.2060	-.1990
.081			-.2380				
.086		-.0860					
.094	-.0790						
.150				-.3370	-.3110	-.3310	-.3240
.177			-.3740				
.229	-.0980						
.246		-.2310					
.250				-.4070	-.3870	-.3780	-.3850
.362	-.1380						
.400				-.4650	-.4460		-.3950
.402			-.3610				
.497	-.1840						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 973

AMES 97-707 1A9 OEA + S3 + T9 UPPER WING

(RBOUD2)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.850

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4490	-.4370		
.565			-.3430				
.600							-.3920
.650						-.4000	
.700	-.2980				-.4270		
.725				-.4330			
.750						-.4120	-.4240
.760			-.2440				
.775				-.4090	-.4160		
.808			-.2340				
.834	-.1030						
.850				-.3700	-.4020	-.4000	
.857			-.2230				
.865	-.0720						
.900	-.0440			-.3200			-.4170
.905			-.1790				
.950				-.3100	-.3440	-.3750	
.953			-.1310				
.965	-.0210						

MACH (1) = 1.555 BETAT (4) = 5.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3400	-.2880	-.0240	.5580	.5780	.5660	.4210
.050				-.3120	-.2710	-.2510	-.2420
.081			-.1830				
.086		-.2150					
.094	-.1750						
.150				-.3650	-.3480	-.3590	-.3520
.177			-.2480				
.229	-.1390						
.246		-.2410					
.250				-.3910	-.4080	-.3990	-.4070
.362	-.1140						
.400				-.4070	-.4520		-.4230
.402			-.2710				
.497	-.1210						
.550				-.3360	-.4370		
.565			-.2810				
.600							-.4080
.650						-.4260	
.700	-.2240				-.4440		
.725				-.2480			
.750						-.4310	-.4300
.760			-.1840				
.775				-.1960	-.4370		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUG2)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1600				
.834	-.0570						
.850				-.1580	-.3910	-.4080	
.857			-.1330				
.865	-.1050						
.900	-.0960			-.1270			-.3890
.905			-.1110				
.950				-.0930	-.3070	-.3730	
.953			-.0990				
.965	-.0770						

MACH (1) = 1.555 BETAT (5) = 7.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3660	-.2870	-.0370	.4150	.4750	.4670	.3680
.050				-.3450	-.3050	-.2800	-.2570
.081			-.1690				
.086		-.1880					
.094	-.2370						
.150				-.3780	-.3750	-.3740	-.3620
.177			-.1930				
.229	-.0190						
.246		-.1820					
.250				-.3720	-.4280	-.4090	-.4150
.362	-.0250						
.400				-.3430	-.4640		-.4410
.402			-.2750				
.497	-.1080						
.550				-.3450	-.4540		
.565			-.3090				
.600							-.4370
.650						-.4490	
.700	-.2600				-.4480		
.725				-.2930			
.750						-.4550	-.4560
.760			-.2150				
.775				-.2380	-.4480		
.808			-.1950				
.834	-.0990						
.850				-.1860	-.3980	-.4380	
.857			-.1780				
.865	-.1440						
.900	-.1340			-.1500			-.4220
.905			-.1640				
.950				-.1170	-.2240	-.3860	
.953			-.1470				

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 975

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(R50102)

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP							
MACH (1) = 1.555 BETAT (5) = 7.140		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	-.1200						
MACH (1) = 1.555 BETAT (6) = 9.190		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3090	-.2560	-.1050	.2760	.3880	.4170	.3030
		.050				-.3830	-.3230	-.2910	-.2740
		.081			-.1930				
		.086		-.2010					
		.094	-.3010						
		.150				-.3620	-.3830	-.3820	-.3770
		.177			-.2300				
		.229	-.0850						
		.246		-.2000					
		.250				-.3290	-.4310	-.4220	-.4290
		.362	-.0880						
		.400				-.3400	-.4590		-.4500
		.402			-.3100				
		.497	-.1700						
		.550				-.3520	-.4440		
		.565			-.3360				
		.600							-.4330
		.650						-.4500	
		.700	-.2910				-.4240		
		.725				-.2930			
		.750						-.4580	-.4540
		.760			-.2260				
		.775				-.2440	-.3970		
		.808			-.2020				
		.834	-.1340						
		.850				-.2020	-.3080	-.4360	
		.857			-.1750				
		.865	-.1660						
		.900	-.1570			-.1740			-.4190
		.905			-.1590				
		.950				-.1510	-.2380	-.3870	
		.953			-.1410				
		.965	-.1380						
MACH (2) = 2.000 BETAT (1) = -8.320		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	.0750	.0620	.5010	1.1050	.9680	.9620	.8800
		.050				.0460	.0840	.0880	.1360
		.081			-.0250				
		.086		.0480					
		.094	.0490						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU02)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -8.320	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.150				-.1040	-.0600	-.0740	-.0440
		.177			-.1610				
		.229	.0390						
		.246		-.0800					
		.250				-.1930	-.1580	-.1340	-.1330
		.362	-.0070						
		.400				-.2610	-.2280		-.1760
		.402			-.2290				
		.497	-.0620						
		.550				-.2880	-.2620		
		.565			-.2550				
		.600							-.2330
		.650						-.2510	
		.700	-.1400				-.2740		
		.725				-.2800			
		.750						-.2620	-.2470
		.760			-.2560				
		.775				-.2770	-.2760		
		.808			-.2160				
		.834	-.1500						
		.850				-.2610	-.2640	-.2540	
		.857			-.1450				
		.865	-.0840						
		.900	-.0520			-.2260			-.2110
		.905			-.0920				
		.950				-.1820	-.2460	-.2220	
		.953			-.0460				
		.965	.0470						

MACH (2) = 2.000	BETAT (2) = -6.270	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	.0250	.0050	.4430	1.0220	.9580	.9140	.8350
		.050				.0110	.0480	.0750	.1140
		.081			-.0490				
		.086		.0180					
		.094	.0130						
		.150				-.1330	-.0820	-.0890	-.0620
		.177			-.1820				
		.229	.0070						
		.246		-.1030					
		.250				-.2140	-.1730	-.1510	-.1480
		.362	-.0290						
		.400				-.2740	-.2400		-.1930
		.402			-.2440				
		.497	-.0790						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 977

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU02)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2950	-.2730		
.565			-.2700				
.600							-.2470
.650						-.2620	
.700	-.1670				-.2840		
.725				-.2880			
.750						-.2740	-.2610
.760			-.2590				
.775				-.2860	-.2790		
.808			-.2240				
.834	-.1700						
.850				-.2710	-.2710	-.2660	
.857			-.1690				
.865	-.1040						
.900	-.0730			-.2360			-.2260
.905			-.1250				
.950				-.2000	-.2550	-.2460	
.953			-.0850				
.965	.0240						

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0450	-.0520	.3650	.9240	.8480	.8550	.7810
.050				-.0290	.0280	.0490	.0870
.081			-.0860				
.086		-.0100					
.094	-.0200						
.150				-.1510	-.1010	-.1030	-.0810
.177			-.2040				
.229	-.0150						
.246		-.1300					
.250				-.2270	-.1880	-.1670	-.1650
.362	-.0560						
.400				-.2810	-.2480		-.2060
.402			-.2530				
.497	-.1080						
.550				-.3010	-.2830		
.565			-.2700				
.600							-.2560
.650						-.2700	
.700	-.1880				-.2930		
.725				-.2970			
.750						-.2820	-.2740
.760			-.2460				
.775				-.2910	-.2930		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU02)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.808			-.2040				
		.834	-.1710						
		.850				-.2730	-.2810	-.2760	
		.857			-.1870				
		.865	-.1140						
		.900	-.0860			-.2390			-.2420
		.905			-.1630				
		.950				-.2140	-.2580	-.2630	
		.953			-.1390				
		.965	-.0070						
MACH (2) = 2.000 BETAT (4) = 3.990		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1950	-.1990	.0630	.6090	.5940	.6010	.5380
		.050				-.1530	-.0880	-.0490	-.0210
		.081			-.1960				
		.086		-.1280					
		.094	-.1380						
		.150				-.2350	-.1820	-.1630	-.1470
		.177			-.2400				
		.229	-.1320						
		.246		-.1720					
		.250				-.2800	-.2440	-.2150	-.2080
		.362	-.1130						
		.400				-.2960	-.2860		-.2410
		.402			-.2360				
		.497	-.1370						
		.550				-.2990	-.3010		
		.565			-.2370				
		.600							-.2770
		.650						-.2690	
		.700	-.1880				-.2910		
		.725				-.2810			
		.750						-.2780	-.2790
		.760			-.1920				
		.775				-.2490	-.2850		
		.808			-.1830				
		.834	-.1150						
		.850				-.2210	-.2660	-.2790	
		.857			-.1830				
		.865	-.1170						
		.900	-.1070			-.2060			-.2750
		.905			-.1690				
		.950				-.1830	-.2410	-.2580	
		.953			-.1420				

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 979

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU02)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = 3.990	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	-.0770						
MACH (2) = 2.000	BETAT (5) = 6.060	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.2050	-.2300	-.0420	.4720	.5350	.5580	.4690
		.050				-.1840	-.1190	-.0800	-.0580
		.081			-.2190				
		.086		-.1570					
		.094	-.1520						
		.150				-.2550	-.2540	-.1850	-.1700
		.177			-.2230				
		.229	-.1460						
		.246		-.1550					
		.250				-.2830	-.2580	-.2330	-.2250
		.362	-.1110						
		.400				-.2800	-.2940		-.2500
		.402			-.2180				
		.497	-.1360						
		.550				-.2740	-.2870		
		.565			-.2250				
		.600							-.2500
		.650						-.2510	
		.700	-.1800				-.2790		
		.725				-.2380			
		.750						-.2600	-.2590
		.760			-.1930				
		.775				-.2110	-.2680		
		.808			-.1860				
		.834	-.1220						
		.850				-.1960	-.2570	-.2590	
		.857			-.1760				
		.865	-.1230						
		.900	-.1120			-.1880			-.2280
		.905			-.1530				
		.950				-.1710	-.2170	-.2400	
		.953			-.1240				
		.965	-.0780						
MACH (2) = 2.000	BETAT (6) = 8.120	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.2220	-.2520	-.1210	.3490	.6020	.6190	.5340
		.050				-.2060	-.1100	-.0610	-.0330
		.081			-.1990				
		.086		-.1970					
		.094	-.1680						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU02)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (6) = 8.120	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.150				-.2580	-.1980	-.1750	-.1560
		.177			-.1890				
		.229	-.1560						
		.246		-.1680					
		.250				-.2430	-.2540	-.2240	-.2150
		.362	-.1100						
		.400				-.2490	-.2830		-.2460
		.402			-.2090				
		.497	-.1340						
		.550				-.2430	-.2960		
		.565			-.2110				
		.600							-.2800
		.650						-.2700	
		.700	-.1770				-.2850		
		.725				-.2290			
		.750						-.2770	-.2810
		.760			-.1700				
		.775				-.1820	-.2800		
		.808			-.1460				
		.834	-.0840						
		.850				-.1490	-.2640	-.2790	
		.857			-.1270				
		.865	-.0700						
		.900	-.0550			-.1310			-.2780
		.905			-.1040				
		.950				-.1170	-.2340	-.2590	
		.953			-.0790				
		.965	-.0290						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 981

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU03) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0060	-.0110	.4180	.8910	.8380	.7970	.6920
.050				-.1170	-.1080	-.0970	-.0710
.081			-.1260				
.086		-.0220					
.094	.0120						
.150				-.2570	-.2210	-.2540	-.2350
.177			-.2980				
.229	-.0310						
.246		-.1680					
.250				-.3560	-.3280	-.3110	-.3190
.362	-.0960						
.400				-.4350	-.4020		-.3570
.402			-.3450				
.497	-.1470						
.550				-.4430	-.4410		
.565			-.3360				
.600							-.4170
.650						-.3960	
.700	-.2690				-.4230		
.725				-.4400			
.750						-.4000	-.4070
.760			-.2140				
.775				-.4200	-.4010		
.808			-.1930				
.834	-.1040						
.850				-.3620	-.3720	-.3950	
.857			-.1980				
.865	-.0420						
.900	-.0260			-.3110			-.3830
.905			-.1550				
.950				-.2630	-.3070	-.3420	
.953			-.0920				
.965	.0220						

MACH (1) = 1.555 BETAT (2) = -5.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0730	-.0690	.3760	.8230	.7920	.7570	.6420
.050				-.1600	-.1230	-.1240	-.0960
.081			-.1520				
.086		-.0420					
.094	-.0250						

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU03)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (2) = -5.070	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.150				-.2830	-.2400	-.2620	-.2510
		.177			-.3170				
		.229	-.0730						
		.246		-.1920					
		.250				-.3730	-.3450	-.3210	-.3300
		.362	-.1140						
		.400				-.4490	-.4160		-.3690
		.402			-.3390				
		.497	-.1600						
		.550				-.4580	-.4510		
		.565			-.3300				
		.600							-.4280
		.650						-.4230	
		.700	-.2720				-.4400		
		.725				-.4610			
		.750						-.4220	-.4320
		.760			-.2230				
		.775				-.4460	-.4350		
		.808			-.2080				
		.834	-.0930						
		.850				-.4050	-.4100	-.4170	
		.857			-.2020				
		.865	-.0510						
		.900	-.0230			-.2610			-.3940
		.905			-.1600				
		.950				-.1210	-.3170	-.3750	
		.953			-.1090				
		.965	.0040						

MACH (1) = 1.555 BETAT (3) = -3.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1300	-.1300	.2870	.7670	.7210	.7360	.6120
.050				-.1850	-.1330	-.1260	-.1080
.081			-.1870				
.086		-.0700					
.094	-.0640						
.150				-.2950	-.2440	-.2650	-.2600
.177			-.3250				
.229	-.0890						
.246		-.1980					
.250				-.3770	-.3410	-.3270	-.3380
.362	-.1240						
.400				-.4370	-.4100		-.3750
.402			-.3360				
.497	-.1670						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 983

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU03)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.050

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.550					-.4420	-.4540		
.565				-.3330				
.600								-.4320
.650							-.4180	
.700	-.2740					-.4470		
.725					-.4450			
.750							-.4190	-.4230
.760				-.2310				
.775					-.3670	-.4420		
.808				-.2180				
.834	-.0920							
.850					-.2170	-.4150	-.4210	
.857				-.1790				
.865	-.0690							
.900	-.0380				-.1710			-.4060
.905				-.1380				
.950					-.1230	-.3300	-.3710	
.953				-.0930				
.965	-.0160							

MACH (1) = 1.555 BETAT (4) = 5.080

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.000	-.3320	-.2690	.0330	.6030	.5870	.5880	.4800	
.050				-.2580	-.2150	-.1940	-.1690	
.081				-.1540				
.086		-.1810						
.094	-.1680							
.150				-.2920	-.2980	-.3170	-.2990	
.177				-.2080				
.229	-.1170							
.246		-.1650						
.250				-.3510	-.3670	-.3660	-.3710	
.362	-.1020							
.400				-.3600	-.4160		-.4020	
.402				-.2490				
.497	-.1220							
.550				-.3290	-.4390			
.565				-.2590				
.600								-.4260
.650							-.4220	
.700	-.1670					-.4250		
.725					-.2160			
.750							-.4280	-.4270
.760				-.1540				
.775					-.1800	-.4010		

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU33)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1260				
.834	-.0580						
.850				-.1330	-.3790	-.4060	
.857			-.1020				
.865	-.1010						
.900	-.0870			-.0990			-.4220
.905			-.0900				
.950				-.0640	-.2610	-.3360	
.953			-.0790				
.965	-.0650						

MACH (1) = 1.555 BETAT (5) = 7.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3590	-.2670	.0410	.4550	.4770	.4770	.4350
.050				-.2720	-.2550	-.2320	-.1690
.081			-.1450				
.086		-.1300					
.094	-.1850						
.150				-.2930	-.3210	-.3360	-.3140
.177			-.1580				
.229	.0070						
.246		-.0750					
.250				-.3200	-.3790	-.3800	-.3800
.362	-.0120						
.400				-.3210	-.4160		-.4110
.402			-.2520				
.497	-.0920						
.550				-.3240	-.4310		
.565			-.2850				
.600							-.4420
.650						-.4310	
.700	-.2210				-.4190		
.725				-.2450			
.750						-.4350	-.4400
.760			-.1780				
.775				-.2080	-.3700		
.808			-.1570				
.834	-.0960						
.850				-.1630	-.2120	-.4320	
.857			-.1420				
.865	-.1340						
.900	-.1230			-.1310			-.4350
.905			-.1290				
.950				-.0970	-.1410	-.3490	
.953			-.1210				

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 985

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOUD3)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.1070						

MACH (1) = 1.555 BETAT (6) = 9.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2900	-.2390	-.0570	.3250	.3860	.4260	.3500
.050				-.3280	-.2670	-.2440	-.2220
.081			-.1560				
.086		-.1910					
.094	-.2200						
.150				-.3250	-.3280	-.3400	-.3330
.177			-.1900				
.229	-.0560						
.246		-.1330					
.250				-.3070	-.3810	-.3850	-.3980
.362	-.0710						
.400				-.3130	-.4090		-.4260
.402			-.2930				
.497	-.1520						
.550				-.3250	-.4010		
.565			-.3130				
.600							-.4400
.650						-.4370	
.700	-.2660				-.3990		
.725				-.2520			
.750						-.4420	-.4460
.760			-.1860				
.775				-.2110	-.3540		
.808			-.1610				
.834	-.1110						
.850				-.1670	-.2490	-.4360	
.857			-.1360				
.865	-.1420						
.900	-.1300			-.1510			-.4290
.905			-.1310				
.950				-.1350	-.2000	-.3490	
.953			-.1190				
.965	-.1110						

MACH (2) = 2.000 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0520	.0700	.4810	1.0760	.9760	.9730	.9270
.050				.0680	.1240	.1330	.1930
.081			-.0100				
.086		.0540					
.094	.0560						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU03)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0900	-.0320	-.0420	-.0110
.177			-.1520				
.229	.0420						
.246		-.0740					
.250				-.1820	-.1430	-.1140	-.1090
.362	-.0050						
.400				-.2530	-.2180		-.1600
.402			-.2170				
.497	-.0580						
.550				-.2830	-.2570		
.565			-.2450				
.600							-.2230
.650						-.2460	
.700	-.1340				-.2700		
.725				-.2780			
.750						-.2570	-.2380
.760			-.2240				
.775				-.2680	-.2740		
.808			-.1820				
.834	-.1210						
.850				-.2380	-.2640	-.2480	
.857			-.1400				
.865	-.0630						
.900	-.0310			-.1930			-.1940
.905			-.0900				
.950				-.1580	-.2470	-.2180	
.953			-.0500				
.965	.0590						

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0150	.0240	.4320	.9910	.8860	.9070	.8700
.050				.0340	.0840	.1170	.1700
.081			-.0370				
.086		.0260					
.094	.0200						
.150				-.1140	-.0590	-.0510	-.0250
.177			-.1650				
.229	.0100						
.246		-.0910					
.250				-.2000	-.1550	-.1250	-.1190
.362	-.0250						
.400				-.2630	-.2250		-.1700
.402			-.2270				
.427	-.0720						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 987

AMES S7-707 IA9-02A + S3 + T9 UPPER WING

(RBOUD3)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.2830	-.2600		
		.565			-.2510				
		.600							-.2310
		.650						-.2510	
		.700	-.1540				-.2730		
		.725				-.2810			
		.750						-.2630	-.2480
		.760			-.2270				
		.775				-.2710	-.2780		
		.808			-.1820				
		.834	-.1460						
		.850				-.2420	-.2660	-.2560	
		.857			-.1410				
		.865	-.0850						
		.900	-.0510			-.1960			-.2050
		.905			-.1050				
		.950				-.1630	-.2440	-.2350	
		.953			-.0740				
		.965	.0370						
MACH (2) = 2.000 BETAT (3) = -4.200		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.0270	-.0350	.3630	.9050	.8290	.8420	.8020
		.050				-.0080	.0600	.0890	.1390
		.081			-.0680				
		.086		-.0010					
		.094	-.0130						
		.150				-.1390	-.0780	-.0730	-.0480
		.177			-.1840				
		.229	-.0150						
		.246		-.1090					
		.250				-.2150	-.1740	-.1410	-.1390
		.362	-.0400						
		.400				-.2670	-.2350		-.1850
		.402			-.2200				
		.497	-.0950						
		.550				-.2930	-.2700		
		.565			-.2300				
		.600							-.2430
		.650						-.2590	
		.700	-.1760				-.2820		
		.725				-.2900			
		.750						-.2730	-.2600
		.760			-.2050				
		.775				-.2760	-.2850		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU03)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1760				
.834	-.1430						
.850				-.2420	-.2750	-.2660	
.857			-.1690				
.865	-.0890						
.900	-.0610			-.2170			-.2250
.905			-.1580				
.950				-.2000	-.2530	-.2500	
.953			-.1400				
.965	.0130						

MACH (2) = 2.000 BETAT (4) = 3.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1810	-.1760	.0780	.5850	.5680	.5950	.5560
.050				-.1360	-.0690	-.0250	.0190
.081			-.1700				
.086		-.1160					
.094	-.1320						
.150				-.2160	-.1650	-.1460	-.1220
.177			-.2120				
.229	-.1250						
.246		-.1420					
.250				-.2600	-.2290	-.2010	-.1900
.362	-.0940						
.400				-.2750	-.2730		-.2260
.402			-.2070				
.497	-.1200						
.550				-.2690	-.2910		
.565			-.2150				
.600							-.2710
.650						-.2790	
.700	-.1710				-.2840		
.725				-.2320			
.750						-.2760	-.2900
.760			-.1780				
.775				-.1940	-.2800		
.808			-.1740				
.834	-.1090						
.850				-.1690	-.2720	-.2760	
.857			-.1710				
.865	-.1120						
.900	-.0990			-.1550			-.2690
.905			-.1520				
.950				-.1410	-.2390	-.2660	
.953			-.1250				

AMES 97-707 1A9-C8A + S3 + T9 UPPER WING

(RBOU03)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0670						

MACH (2) = 2.000 BETAT (5) = 6.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2010	-.2140	-.0190	.5010	.5000	.5550	.5020
.050				-.1610	-.0950	-.0490	-.0120
.081			-.1890				
.086		-.1350					
.094	-.1510						
.150				-.2300	-.1790	-.1630	-.1420
.177			-.1800				
.229	-.1340						
.246		-.1280					
.250				-.2490	-.2350	-.2140	-.2060
.362	-.0940						
.400				-.2570	-.2680		-.2370
.402			-.1960				
.497	-.1190						
.550				-.2550	-.2890		
.565			-.2080				
.600							-.2730
.650						-.2720	
.700	-.1680				-.2810		
.725				-.2140			
.750						-.2720	-.2790
.760			-.1790				
.775				-.1850	-.2780		
.808			-.1730				
.834	-.1070						
.850				-.1630	-.2660	-.2730	
.857			-.1630				
.865	-.1110						
.900	-.0990			-.1480			-.2410
.905			-.1350				
.950				-.1340	-.2330	-.2490	
.953			-.1040				
.965	-.0640						

MACH (2) = 2.000 BETAT (6) = 8.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2010	-.2340	-.1000	.3580	.5820	.6140	.5430
.050				-.1850	-.0850	-.0430	-.0010
.081			-.1590				
.086		-.1670					
.094	-.1570						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU53)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2040	-.1590	-.1530	-.1320
.177			-.1520				
.229	-.1430						
.246		-.1200					
.250				-.2220	-.2130	-.1970	-.1960
.362	-.0970						
.400				-.2270	-.2560		-.2270
.402			-.1970				
.497	-.1230						
.550				-.2290	-.2790		
.565		-.1980					
.600							-.2690
.650						-.2730	
.700	-.1690				-.2770		
.725				-.2090			
.750						-.2730	-.2840
.760			-.1500				
.775				-.1580	-.2710		
.808			-.1260				
.834	-.0850						
.850				-.1240	-.2510	-.2680	
.857			-.1050				
.865	-.0720						
.900	-.0480			-.1070			-.2670
.905			-.0750				
.950				-.0930	-.1800	-.2620	
.953			-.0550				
.965	-.0190						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 991

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUD4) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.090

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0080	.0210	.4210	.8780	.8140	.8610	.7680
.050				-.0560	.0030	.0090	.0480
.081			-.0760				
.086		.0060					
.094	.0190						
.150				-.2150	-.1590	-.1600	-.1590
.177			-.2510				
.229	-.0230						
.246		-.1470					
.250				-.3240	-.2760	-.2540	-.2630
.362	-.0860						
.400				-.4020	-.3660		-.3110
.402			-.3260				
.497	-.1370						
.550				-.4200	-.4210		
.565			-.3160				
.600							-.3890
.650						-.4250	
.700	-.2410				-.4400		
.725				-.4200			
.750						-.4260	-.3940
.760			-.1940				
.775				-.3100	-.4430		
.808			-.1820				
.834	-.0670						
.850				-.2350	-.4160	-.3930	
.857			-.1550				
.865	-.0200						
.900	.0130			-.1490			-.3450
.905			-.1050				
.950				-.0970	-.3060	-.3520	
.953			-.0350				
.965	.0370						

MACH (1) = 1.555 BETAT (2) = -5.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0600	-.0250	.3840	.8290	.7700	.8110	.7370
.050				-.0810	-.0240	.0000	.0400
.081			-.1050				
.086		-.0370					
.094	-.0260						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU04)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -5.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2320	-.1830	-.1690	-.1700
.177			-.2630				
.229	-.0640						
.246		-.1660					
.250				-.3310	-.2920	-.2630	-.2710
.362	-.1070						
.400				-.4030	-.3710		-.3180
.402			-.3120				
.497	-.1450						
.550				-.4110	-.4230		
.565			-.3170				
.600							-.3960
.650						-.4260	
.700	-.2450				-.4410		
.725				-.4030			
.750						-.4300	-.4020
.760			-.2030				
.775				-.3090	-.4440		
.808			-.1870				
.834	-.0710						
.850				-.1510	-.4160	-.4030	
.857			-.1540				
.865	-.0490						
.900	-.0230			-.0620			-.3550
.905			-.1020				
.950				-.0790	-.3170	-.3590	
.953			-.0390				
.965	.0140						

MACH (1) = 1.555 BETAT (3) = -3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1180	-.0840	.3150	.7820	.7220	.7440	.7160
.050				-.1200	-.0620	-.0390	.0250
.081			-.1260				
.086		-.0590					
.094	-.0610						
.150				-.2510	-.2020	-.1930	-.1830
.177			-.2640				
.229	-.0800						
.246		-.1670					
.250				-.3410	-.3070	-.2810	-.2840
.362	-.1110						
.400				-.3990	-.3840		-.3300
.402			-.3090				
.497	-.1500						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 993

AMES 97-707 IA9 Q2A + S3 + Y9 UPPER WING

(RBOUD4)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4080	-.4320		
.565			-.3140				
.600							
.650							-.4070
.700	-.2490				-.4430	-.4330	
.725				-.3870			
.750						-.4360	-.4140
.760			-.2070				
.775				-.2150	-.4420		
.808			-.1910				
.834	-.0700						
.850				-.1400	-.4170	-.4190	
.857			-.1500				
.865	-.0660						
.900	-.0410			-.1160			-.3640
.905			-.0980				
.950				-.1180	-.3000	-.3650	
.953			-.0440				
.965	-.0170						

MACH (1) = 1.555 BETAT (4) = 5.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3090	-.2550	.0820	.6480	.5840	.6020	.5390
.050				-.1540	-.1310	-.1340	-.0930
.081			-.1410				
.086		-.1320					
.094	-.1610						
.150				-.2330	-.2190	-.2470	-.2470
.177			-.1520				
.229	-.0880						
.246		-.1200					
.250				-.2880	-.3040	-.3080	-.3250
.362	-.0900						
.400				-.3160	-.3710		-.3600
.402			-.2360				
.497	-.1320						
.550				-.3110	-.4030		
.565		-.2220					
.600							-.4240
.650						-.4330	
.700	-.1260				-.4010		
.725				-.1710			
.750						-.4170	-.4300
.760			-.1120				
.775				-.1320	-.3760		

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU04)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.060		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.808			-.0860				
		.834	-.0510						
		.850				-.0970	-.2610	-.4070	
		.857			-.0650				
		.865	-.0820						
		.900	-.0620			-.0740			-.3830
		.905			-.0590				
		.950				-.0510	-.0720	-.2960	
		.953			-.0480				
		.965	-.0470						
MACH (1) = 1.555 BETAT (5) = 7.080		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3310	-.2100	.1030	.5260	.5000	.4820	.4400
		.050				-.1880	-.1750	-.1720	-.1220
		.081			-.0920				
		.086		-.0180					
		.094	-.1780						
		.150				-.2520	-.2530	-.2730	-.2560
		.177			-.1240				
		.229	.0290						
		.246		-.0460					
		.250				-.2780	-.3270	-.3220	-.3310
		.362	-.0170						
		.400				-.3030	-.3790		-.3650
		.402			-.2300				
		.497	-.0700						
		.550				-.3050	-.3900		
		.565			-.2580				
		.600							-.4280
		.650						-.4280	
		.700	-.1880				-.3780		
		.725				-.2070			
		.750						-.4160	-.4300
		.760			-.1430				
		.775				-.1690	-.3400		
		.808			-.1210				
		.834	-.0730						
		.850				-.1270	-.1810	-.3960	
		.857			-.1090				
		.865	-.1160						
		.900	-.1050			-.1070			-.3800
		.905			-.1030				
		.950				-.0820	-.1200	-.2890	
		.953			-.0990				

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU04)

SECTION (1) UPPER WING

DEPENDENT VARIABLE C_p

MACH (1) = 1.555 BETAT (5) = 7.080	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW	.965	-.0940					
MACH (1) = 1.555 BETAT (6) = 9.100	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.2770	-.2140	.0220	.3940	.4290	.4620	.3840
	.050				-.2410	-.1740	-.1650	-.1450
	.081			-.1060				
	.086		-.1640					
	.094	-.1460						
	.150				-.2620	-.2550	-.2690	-.2800
	.177			-.1480				
	.229	-.0340						
	.246		-.0760					
	.250				-.2820	-.3250	-.3260	-.3500
	.362	-.0580						
	.400				-.2910	-.3540		-.3830
	.402			-.2570				
	.497	-.1230						
	.550				-.3040	-.3710		
	.565			-.2880				
	.600							-.4410
	.650						-.4230	
	.700	-.2310				-.3720		
	.725				-.2140			
	.750						-.4180	-.4280
	.760			-.1450				
	.775				-.1740	-.3370		
	.808			-.1220				
	.834	-.0980						
	.850				-.1270	-.2150	-.3830	
	.857			-.1070				
	.865	-.1070						
	.900	-.0960			-.1140			-.4120
	.905			-.1040				
	.950				-.0960	-.1620	-.2290	
	.953			-.0990				
	.965	-.0940						
MACH (2) = 2.000 BETAT (1) = -8.270	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.100	.0230	.0830	.4580	1.0220	.9540	.9660	.9350
	.050				.0870	.1690	.1910	.2530
	.081			-.0020				
	.086		.0610					
	.094	.0680						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU04)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0720	-.0140	-.0060	.0270
.177			-.1420				
.229	.0400						
.246		-.0680					
.250				-.1690	-.1290	-.0910	-.0850
.362	.0000						
.400				-.2390	-.2080		-.1410
.402			-.1990				
.497	-.0540						
.550				-.2700	-.2450		
.565			-.2080				
.600							-.2160
.650						-.2390	
.700	-.1270				-.2590		
.725				-.2740			
.750						-.2480	-.2270
.760			-.1800				
.775				-.2650	-.2640		
.808			-.1360				
.834	-.0860						
.850				-.2190	-.2530	-.2390	
.857			-.1130				
.865	-.0390						
.900	-.0090			-.1470			-.1810
.905			-.0940				
.950				-.1250	-.2290	-.2140	
.953			-.0700				
.965	.0700						

MACH (2) = 2.000 BETAT (2) = -6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0020	.0400	.4090	.9680	.8730	.8960	.8840
.050				.0560	.1240	.1640	.2260
.081			-.0120				
.086		.0300					
.094	.0250						
.150				-.0940	-.0420	-.0210	.0090
.177			-.1420				
.229	.0100						
.246		-.0770					
.250				-.1830	-.1400	-.1020	-.0950
.362	-.0200						
.400				-.2520	-.2100		-.1490
.402			-.2030				
.497	-.0710						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU4)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2770	-.2510		
.565			-.2140				
.600							-.2210
.650						-.2410	
.700	-.1440				-.2660		
.725				-.2770			
.750						-.2540	-.2410
.760			-.1890				
.775				-.2660	-.2700		
.808			-.1520				
.834	-.1190						
.850				-.2160	-.2620	-.2460	
.857			-.1350				
.865	-.0680						
.900	-.0340			-.1640			-.2020
.905			-.1200				
.950				-.1540	-.2390	-.2250	
.953			-.1060				
.965	.0490						

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0430	-.0210	.3560	.8850	.8060	.8260	.8110
.050				.0250	.1000	.1390	.1920
.081			-.0330				
.086		.0060					
.094	.0010						
.150				-.1160	-.0520	-.0340	-.0120
.177			-.1550				
.229	-.0120						
.246		-.0860					
.250				-.1940	-.1510	-.1140	-.1080
.362	-.0310						
.400				-.2570	-.2180		-.1600
.402			-.2030				
.497	-.0850						
.550				-.2810	-.2560		
.565			-.2150				
.600							-.2290
.650						-.2470	
.700	-.1620				-.2700		
.725				-.2790			
.750						-.2590	-.2470
.760			-.1780				
.775				-.2630	-.2740		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU04)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

MACH (2) = 2.000 BETAT (4) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU04)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.950		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.965	-.0600					
MACH (2) = 2.000 BETAT (5) = 5.990		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.000	-.1810	-.1940	-.0030	.4900	.4780	.5440
			.050			-.1290	-.0610	-.0180	.0380
			.081			-.1240			
			.086		-.1120				
			.094	-.1320					
			.150			-.1870	-.1510	-.1330	-.1110
			.177			-.1340			
			.229	-.1180					
			.246		-.1010				
			.250			-.2180	-.2120	-.1880	-.1810
			.362	-.0740					
			.400			-.2280	-.2500		-.2170
			.402			-.1770			
			.497	-.1050					
			.550			-.2390	-.2690		
			.565			-.1960			
			.600						-.2610
			.650					-.2690	
			.700	-.1550			-.2700		
			.725			-.2030			
			.750					-.2740	-.2760
			.760			-.1590			
			.775			-.1670	-.2630		
			.808			-.1470			
			.834	-.0930					
			.850			-.1420	-.2400	-.2640	
			.857			-.1350			
			.865	-.0960					
			.900	-.0860		-.1240			-.2220
			.905			-.1080			
			.950			-.1110	-.1470	-.2520	
			.953			-.0830			
			.965	-.0560					
MACH (2) = 2.000 BETAT (6) = 8.030		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.000	-.1870	-.2060	-.0630	.3620	.5690	.5980
			.050			-.1420	-.0180	.0140	.0550
			.081			-.1120			
			.086		-.1380				
			.094	-.1470					

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUE4)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.030

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150				-.1750	-.1170	-.1090	-.0940
.177			-.1260				
.229	-.1270						
.246		-.0980					
.250				-.1990	-.1830	-.1650	-.1650
.362	-.0840						
.400				-.2140	-.2300		-.2010
.402			-.1840				
.497	-.1130						
.550				-.2140	-.2510		
.565			-.1970				
.600							-.2520
.650						-.2540	
.700	-.1590				-.2510		
.725				-.1940			
.750						-.2640	-.2690
.760			-.1250				
.775				-.1350	-.2440		
.808			-.0990				
.834	-.0840						
.850				-.1020	-.2240	-.2530	
.857			-.0800				
.865	-.0850						
.900	-.0670			-.0850			-.2500
.905			-.0540				
.950				-.0740	-.1430	-.2350	
.953			-.0380				
.965	-.0090						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUDS) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0000	.0630	.4110	.8590	.8020	.8400	.8230
.050				.0150	.0830	.0960	.1550
.081			-.0290				
.086		.0310					
.094	.0270						
.150				-.1770	-.1210	-.1070	-.0880
.177			-.2060				
.229	-.0130						
.246		-.1230					
.250				-.2870	-.2460	-.2150	-.2080
.362	-.0720						
.400				-.3710	-.3430		-.2720
.402			-.2950				
.497	-.1230						
.550				-.3850	-.4020		
.565			-.3000				
.600							-.3690
.650						-.4040	
.700	-.2170				-.4200		
.725				-.3750			
.750						-.4070	-.3740
.760			-.1760				
.775				-.2010	-.4220		
.808			-.1580				
.834	-.0400						
.850				-.1550	-.4030	-.3850	
.857			-.1120				
.865	-.0110						
.900	.0190			-.1230			-.3050
.905			-.0490				
.950				-.1030	-.2640	-.3190	
.953			.0230				
.965	.0460						

MACH (1) = 1.555 BETAT (2) = -5.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0440	.0140	.3840	.8130	.7650	.7920	.7780
.050				-.0090	.0650	.0750	.1260
.081			-.0540				
.086		-.0130					
.094	-.0150						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU95)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -5.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1900	-.1340	-.1190	-.1050
.177			-.2060				
.229	-.0410						
.246		-.1330					
.250				-.2920	-.2550	-.2230	-.2230
.362	-.0870						
.400				-.3650	-.3440		-.2850
.402			-.2870				
.497	-.1280						
.550				-.3710	-.4020		
.565			-.2970				
.600							-.3760
.650						-.4080	
.700	-.2230				-.4200		
.725				-.3580			
.750						-.4130	-.3770
.760			-.1770				
.775				-.1890	-.4220		
.808			-.1550				
.834	-.0460						
.850				-.1360	-.4000	-.3930	
.857			-.1090				
.865	-.0340						
.900	-.0090			-.1130			-.3220
.905			-.0570				
.950				-.1010	-.2520	-.3290	
.953			.0010				
.965	.0200						

MACH (1) = 1.555 BETAT (3) = -3.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0890	-.0480	.3230	.7640	.7180	.7470	.7330
.050				-.0340	.0520	.0540	.0960
.081			-.0720				
.086		-.0380					
.094	-.0490						
.150				-.1970	-.1430	-.1310	-.1200
.177			-.2050				
.229	-.0650						
.246		-.1320					
.250				-.2940	-.2590	-.2330	-.2340
.362	-.0890						
.400				-.3450	-.3470		-.2950
.402			-.2820				
.497	-.1330						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1003

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU05)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.3570	-.4010		
.565			-.2910				
.600							-.3840
.650						-.4090	
.700	-.2240				-.4140		
.725				-.3360			
.750						-.4150	-.3880
.760			-.1790				
.775				-.1730	-.4130		
.808			-.1450				
.834	-.0480						
.850				-.1340	-.3900	-.3960	
.857			-.0960				
.865	-.0540						
.900	-.0320			-.1180			-.3080
.905			-.0470				
.950				-.1050	-.2200	-.3390	
.953			-.0070				
.965	-.0090						

MACH (1) = 1.555 BETAT (4) = 5.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2550	-.2340	.1460	.6960	.6050	.6030	.5790
.050				-.0450	-.0100	-.0260	-.0050
.081			-.1020				
.086		-.0590					
.094	-.1520						
.150				-.1750	-.1690	-.1760	-.1790
.177			-.1090				
.229	-.0710						
.246		-.1080					
.250				-.2330	-.2690	-.2610	-.2740
.362	-.0870						
.400				-.2830	-.3310		-.3200
.402			-.2170				
.497	-.1320						
.550				-.2900	-.3600		
.565			-.1780				
.600							-.4010
.650						-.3980	
.700	-.0830				-.3570		
.725				-.1190			
.750						-.3910	-.4030
.760			-.0760				
.775				-.0920	-.3160		

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU05)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0530				
.834	-.0230						
.850				-.0660	-.1600	-.3710	
.857			-.0380				
.865	-.0610						
.900	-.0440			-.0460			-.3490
.905			-.0340				
.950				-.0250	-.0680	-.2880	
.953			-.0250				
.965	-.0380						

MACH (1) = 1.555 BETAT (5) = 7.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3030	-.2260	.1490	.5920	.5170	.4930	.4630
.050				-.1060	-.0800	-.0850	-.0560
.081			-.0550				
.086		-.0240					
.094	-.1720						
.150				-.1860	-.2030	-.2140	-.2120
.177			-.0840				
.229	.0510						
.246		-.0310					
.250				-.2250	-.2810	-.2840	-.2820
.362	-.0140						
.400				-.2690	-.3200		-.3230
.402			-.2030				
.497	-.0570						
.550				-.2790	-.3450		
.565			-.2280				
.600							-.3960
.650						-.3810	
.700	-.1520				-.3430		
.725				-.1600			
.750						-.3710	-.3930
.760			-.1030				
.775				-.1240	-.3180		
.808			-.0880				
.834	-.0430						
.850				-.0840	-.1810	-.3380	
.857			-.0790				
.865	-.0920						
.900	-.0830			-.0710			-.3270
.905			-.0770				
.950				-.0580	-.0670	-.2100	
.953			-.0750				

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOUD5)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.070	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.985	-.0810						
MACH (1) = 1.555 BETAT (6) = 9.090	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.2730	-.1720	.0770	.4300	.4460	.4860	.4330
	.050				-.1580	-.0940	-.0750	-.0700
	.081			-.0550				
	.086		-.0400					
	.094	-.1120						
	.150				-.1940	-.1860	-.1990	-.2210
	.177			-.1130				
	.229	-.0200						
	.246		-.0630					
	.250				-.2360	-.2520	-.2680	-.3000
	.362	-.0430						
	.400				-.2690	-.3060		-.3410
	.402			-.2300				
	.497	-.0980						
	.550				-.2750	-.3310		
	.565			-.2630				
	.600							-.4050
	.650						-.3880	
	.700	-.2040				-.3390		
	.725				-.1670			
	.750						-.3790	-.4020
	.760			-.1120				
	.775				-.1280	-.3170		
	.808			-.0870				
	.834	-.0740						
	.850				-.0870	-.1740	-.3280	
	.857			-.0820				
	.865	-.0930						
	.900	-.0810			-.0780			-.3370
	.905			-.0810				
	.950				-.0680	-.1010	-.2130	
	.953			-.0780				
	.965	-.0820						
MACH (2) = 2.000 BETAT (1) = -8.280	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	.0180	.1080	.4360	.9820	.9160	.9570	.9420
	.050				.1090	.2150	.2590	.2950
	.081			.0270				
	.086		.0660					
	.094	.0720						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU05)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0530	.0250	.0390	.0680
.177			-.1050				
.229	.0390						
.246		-.0390					
.250				-.1500	-.0930	-.0620	-.0460
.362	.0120						
.400				-.2220	-.1810		-.1120
.402			-.1820				
.497	-.0560						
.550				-.2540	-.2310		
.565			-.1970				
.600							-.1960
.650						-.2200	
.700	-.1290				-.2500		
.725				-.2630			
.750						-.2330	-.2170
.760			-.1580				
.775				-.2570	-.2530		
.808			-.1150				
.834	-.0740						
.850				-.1950	-.2420	-.2230	
.857			-.0980				
.865	-.0170						
.900	.0220			-.1160			-.1900
.905			-.0820				
.950				-.0890	-.2180	-.2000	
.953			-.0600				
.965	.0950						

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0050	.0650	.3900	.9450	.8600	.8740	.9030
.050				.1010	.1850	.2230	.2780
.081			.0090				
.086		.0370					
.094	.0220						
.150				-.0650	-.0070	.0230	.0500
.177			-.1200				
.229	.0080						
.246		-.0620					
.250				-.1580	-.1160	-.0740	-.0580
.362	-.0130						
.400				-.2350	-.1920		-.1210
.402			-.1800				
.497	-.0720						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUD5)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2630	-.2390		
.565			-.2040				
.600							-.2040
.650						-.2270	
.700	-.1280				-.2530		
.725				-.2640			
.750						-.2400	-.2270
.760			-.1630				
.775				-.2540	-.2570		
.808			-.1340				
.834	-.0760						
.850				-.1700	-.2500	-.2300	
.857			-.1250				
.865	-.0390						
.900	-.0069			-.1130			-.1910
.905			-.1060				
.950				-.0920	-.2270	-.2060	
.953			-.0770				
.965	.0700						

MACH (2) = 2.000 BETAT (3) = -4.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.500	-.0390	.0100	.3580	.8760	.7820	.8130	.8270
.650				.0620	.1530	.1950	.2390
.681			-.0080				
.686		.0110					
.694	-.0190						
.150				-.0930	-.0240	-.0010	.0290
.177			-.1350				
.229	-.0160						
.246		-.0670					
.250				-.1780	-.1240	-.0900	-.0750
.362	-.0290						
.400				-.2410	-.2000		-.1390
.402			-.1890				
.497	-.0750						
.550				-.2650	-.2440		
.565			-.1990				
.600							-.2130
.650						-.2330	
.700	-.1430				-.2570		
.725				-.2620			
.750						-.2470	-.2370
.760			-.1500				
.775				-.2440	-.2630		

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOUD5)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.140		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.808			-.1290				
		.834	-.0610						
		.850				-.1550	-.2560	-.2410	
		.857			-.1250				
		.865	-.0350						
		.900	-.0080			-.1130			-.2150
		.905			-.1070				
		.950				-.0890	-.2330	-.2240	
		.953			-.0740				
		.965	.0430						
MACH (2) = 2.000 BETAT (4) = 3.940		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1280	-.1280	.0960	.5620	.4980	.5390	.5830
		.050				-.0880	-.0150	.0460	.1090
		.081			-.0730				
		.086		-.0790					
		.094	-.1030						
		.150				-.1420	-.1170	-.0900	-.0640
		.177			-.1130				
		.229	-.0930						
		.246		-.0820					
		.250				-.1820	-.1780	-.1550	-.1440
		.362	-.0590						
		.400				-.2080	-.2240		-.1920
		.402			-.1670				
		.497	-.0900						
		.550				-.2260	-.2480		
		.565			-.1880				
		.600							-.2480
		.650						-.2510	
		.700	-.1430				-.2510		
		.725				-.2180			
		.750						-.2610	-.2650
		.760			-.1420				
		.775				-.1570	-.2480		
		.808			-.1300				
		.834	-.0820						
		.850				-.1270	-.2320	-.2500	
		.857			-.1180				
		.865	-.0900						
		.900	-.0800			-.1090			-.2380
		.905			-.0950				
		.950				-.0980	-.1650	-.2310	
		.953			-.0750				

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1009

AMES 97-707 1A9 O2A + 83 + T9 UPPER WING

(RBOU05)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0520						

MACH (2) = 2.000 BETAT (5) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1570	-.1640	.0440	.4110	.4060	.4990	.5080
.050				-.0830	-.0120	.0050	.0700
.081			-.0780				
.086		-.0890					
.094	-.1200						
.150				-.1380	-.1060	-.0950	-.0880
.177			-.1040				
.229	-.1020						
.246		-.0810					
.250				-.1730	-.1720	-.1490	-.1550
.362	-.0620						
.400				-.2040	-.2170		-.1940
.402			-.1630				
.497	-.0920						
.550				-.2200	-.2380		
.565			-.1830				
.600							-.2410
.650						-.2440	
.700	-.1420				-.2410		
.725				-.1950			
.750						-.2480	-.2520
.760			-.1380				
.775				-.1510	-.2350		
.808			-.1240				
.834	-.0800						
.850				-.1200	-.2180	-.2360	
.857			-.1090				
.865	-.0850						
.900	-.0730			-.1030			-.2240
.905			-.0870				
.950				-.0910	-.1240	-.2140	
.953			-.0660				
.965	-.0500						

MACH (2) = 2.000 BETAT (6) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1720	-.1830	.0000	.3640	.4260	.5530	.5710
.050				-.0870	.0130	.0700	.0900
.081			-.0670				
.086		-.0940					
.094	-.1360						

AMES 97-707 1A9 O2A + S3 + TS UPPER WING

(RBOUG5)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1370	-.0670	-.0570	-.0630
.177			-.1030				
.229	-.1030						
.246		-.0820					
.250				-.1650	-.1440	-.1230	-.1310
.362	-.0720						
.400				-.2020	-.1950		-.1700
.402			-.1670				
.497	-.1000						
.550				-.1980	-.2180		
.565			-.1810				
.600							-.2290
.650						-.2310	
.700	-.1480				-.2230		
.725				-.1820			
.750						-.2370	-.2450
.760			-.1110				
.775				-.1130	-.2180		
.808			-.0810				
.834	-.0720						
.850				-.0790	-.2000	-.2260	
.857			-.0590				
.865	-.0780						
.900	-.0650			-.0630			-.2160
.905			-.0360				
.950				-.0550	-.1280	-.2000	
.953			-.0230				
.965	-.0290						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUD6) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0360	.0910	.4030	.8310	.7910	.8270	.8220
.050				.0690	.1310	.1600	.2370
.081			.0110				
.086		.0510					
.094	.0520						
.150				-.1330	-.0690	-.0490	-.0300
.177			-.1530				
.229	.0100						
.246		-.0980					
.250				-.2390	-.2030	-.1710	-.1660
.362	-.0500						
.400				-.3250	-.3040		-.2440
.402			-.2620				
.497	-.1080						
.550				-.3420	-.3670		
.565			-.2670				
.600							-.3520
.650						-.3770	
.700	-.1890				-.3860		
.725				-.3090			
.750						-.3840	-.3530
.760			-.1340				
.775				-.1410	-.3900		
.808			-.1010				
.834	.0010						
.850				-.1090	-.3660	-.3620	
.857			-.0500				
.865	.0100						
.900	.0380			-.0980			-.2510
.905			.0090				
.950				-.0760	-.1790	-.2990	
.953			.0640				
.965	.0650						

MACH (1) = 1.555 BETAT (2) = -5.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0130	.0470	.3750	.7760	.7460	.7720	.7790
.050				.0480	.1120	.1390	.2130
.081			-.0040				
.086		.0060					
.094	.0090						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUND6)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -5.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1440	-.0840	-.0610	-.0440
.177			-.1540				
.229	-.0140						
.246		-.1000					
.250				-.2470	-.2160	-.1800	-.1760
.362	-.0660						
.400				-.3090	-.3100		-.2540
.402			-.2540				
.497	-.1060						
.550				-.3240	-.3700		
.565			-.2670				
.600							-.3620
.650						-.3800	
.700	-.1970				-.3830		
.725				-.3000			
.750						-.3880	-.3630
.760			-.1380				
.775				-.1420	-.3810		
.808			-.1000				
.834	-.0070						
.850				-.1110	-.3510	-.3670	
.857			-.0490				
.865	-.0170						
.900	.0060			-.0960			-.2790
.905			-.0030				
.950				-.0690	-.1570	-.3210	
.953			.0360				
.965	.0270						

MACH (1) = 1.555 BETAT (3) = -3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0730	-.0040	.2910	.7220	.6860	.7320	.7370
.050				.0350	.0980	.1270	.1900
.081			-.0150				
.086		-.0070					
.094	-.0290						
.150				-.1540	-.0910	-.0700	-.0580
.177			-.1380				
.229	-.0420						
.246		-.0930					
.250				-.2390	-.2170	-.1860	-.1870
.362	-.0580						
.400				-.2950	-.3070		-.2590
.402			-.2550				
.497	-.1130						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU06)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.3170	-.3600		
.565			-.2670				
.600							-.3680
.650						-.3800	
.700	-.2010				-.3690		
.725				-.2640			
.750						-.3880	-.3700
.760			-.1360				
.775				-.1440	-.3640		
.808			-.0880				
.834	-.0290						
.850				-.1160	-.3330	-.3680	
.857			-.0370				
.865	-.0450						
.900	-.0210			-.0970			-.2930
.905			-.0060				
.950				-.0600	-.1370	-.3150	
.953			.0170				
.965	.0000						

MACH (1) = 1.555 BETAT (4) = 5.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2170	-.1840	.1500	.6740	.5770	.5630	.5860
.050				.0020	.0380	.0330	.0910
.081			-.0370				
.086		-.0370					
.094	-.1280						
.150				-.0970	-.0930	-.1100	-.1060
.177			-.0930				
.229	-.0460						
.246		-.0920					
.250				-.1690	-.2030	-.2020	-.2150
.362	-.0690						
.400				-.2410	-.2760		-.2790
.402			-.1900				
.497	-.1200						
.550				-.2580	-.3140		
.565			-.1510				
.600							-.3670
.650						-.3560	
.700	-.0530				-.3150		
.725				-.0810			
.750						-.3540	-.3680
.760			-.0370				
.775				-.0460	-.2720		

AMES 97-707 IAS Q2A + S3 + T9 UPPER WING

(RBOUG6)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0240				
.834	.0080						
.850				-.0130	-.1030	-.3210	
.857			-.0200				
.865	-.0400						
.900	-.0260			-.0090			-.2810
.905			-.0170				
.950				.0100	-.0110	-.1730	
.953			-.0070				
.965	-.0210						

MACH (1) = 1.555 BETAT (5) = 7.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2580	-.1860	.2510	.5460	.4560	.4440	.4580
.050				-.0340	-.0110	.0020	.0390
.081			.0150				
.086		.0510					
.094	-.1510						
.150				-.1080	-.1220	-.1340	-.1350
.177			-.0460				
.229	.0140						
.246		-.0250					
.250				-.1690	-.2160	-.2130	-.2160
.362	-.0090						
.400				-.2330	-.2710		-.2690
.402			-.1790				
.497	-.0340						
.550				-.2510	-.3040		
.565			-.1940				
.600							-.3600
.650						-.3370	
.700	-.1070				-.3040		
.725				-.1130			
.750						-.3270	-.3550
.760			-.0700				
.775				-.0750	-.2630		
.808			-.0560				
.834	-.0250						
.850				-.0480	-.1420	-.2770	
.857			-.0550				
.865	-.0780						
.900	-.0700			-.0460			-.2640
.905			-.0560				
.950				-.0380	.0280	-.1330	
.953			-.0570				

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOUD6)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0670						

MACH (1) = 1.555 BETAT (6) = 9.090

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2440	-.1130	.1690	.4390	.3840	.4350	.4220
.050				-.0800	-.0190	.0210	.0480
.081			-.0110				
.086		.0070					
.094	-.0830						
.150				-.1350	-.1130	-.1230	-.1440
.177			-.0700				
.229	-.0040						
.246		-.0510					
.250				-.1880	-.2010	-.2000	-.2340
.362	-.0300						
.400				-.2320	-.2530		-.2860
.402			-.2040				
.497	-.0810						
.550				-.2460	-.2940		
.565			-.2290				
.600							-.3670
.650						-.3410	
.700	-.1650			-.3050			
.725				-.1150			
.750						-.3380	-.3680
.760			-.0760				
.775				-.0810	-.2730		
.808			-.0570				
.834	-.0430						
.850				-.0540	-.1270	-.2960	
.857			-.0560				
.865	-.0780						
.900	-.0660			-.0560			-.2780
.905			-.0610				
.950				-.0530	-.0380	-.1610	
.953			-.0610				
.965	-.0660						

MACH (2) = 2.000 BETAT (1) = -8.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0280	.1380	.4540	.9740	.8960	.9400	.9570
.050				.1510	.2520	.2950	.3460
.081			.0630				
.086		.0880					
.094	.0500						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU56)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0290	.0530	.0750	.1060
.177			-.0760				
.229	.0560						
.246		-.0160					
.250				-.1290	-.0670	-.0300	-.0160
.362	.0280						
.400				-.2010	-.1590		-.0880
.402			-.1540				
.497	-.0350						
.550				-.2320	-.2130		
.565			-.1790				
.600							-.1790
.650						-.2040	
.700	-.1080				-.2320		
.725				-.2360			
.750						-.2180	-.2010
.760			-.1220				
.775				-.2300	-.2370		
.808			-.0840				
.834	-.0350						
.850				-.1110	-.2260	-.1980	
.857			-.0710				
.865	.0150						
.900	.0550			-.0630			-.1580
.905			-.0590				
.950				-.0390	-.2000	-.1790	
.953			-.0300				
.965	.1080						

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0010	.0920	.3910	.9170	.8430	.8460	.8940
.050				.1210	.2250	.2480	.3210
.081			.0330				
.086		.0570					
.094	.0110						
.150				-.0510	.0230	.0470	.0870
.177			-.0960				
.229	.0220						
.246		-.0360					
.250				-.1400	-.0940	-.0520	-.0300
.362	-.0010						
.400				-.2180	-.1760		-.1030
.402			-.1630				
.497	-.0580						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU06)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -8.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.558				-.2458	-.2240		
.585			-.1080				
.600							-.1900
.630						-.2130	
.700	-.1160				-.2410		
.725				-.2438			
.750						-.2280	-.2140
.760			-.1350				
.775				-.2300	-.2450		
.808			-.1050				
.834	-.0380						
.850				-.1080	-.2400	-.2170	
.857			-.0960				
.865	-.0160						
.900	.0130			-.0700			-.2040
.905			-.0710				
.950				-.0560	-.2100	-.1920	
.953			-.0320				
.965	.0770						

MACH (2) = 2.000 BETAT (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0730	-.0330	.2160	.5660	.6140	.6520	.6880
.050				.0130	.0980	.1600	.2210
.081			-.0260				
.086		-.0180					
.094	-.0700						
.150				-.1030	-.0620	-.0250	.0220
.177			-.1050				
.229	-.0480						
.246		-.0770					
.250				-.1640	-.1490	-.1100	-.0820
.362	-.0510						
.400				-.2050	-.2080		-.1460
.402			-.1560				
.497	-.0800						
.550				-.2080	-.2370		
.565			-.1780				
.600							-.2210
.650						-.2360	
.700	-.1240				-.2440		
.725				-.2130			
.750						-.2470	-.2450
.760			-.1200				
.775				-.1480	-.2420		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUD6)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808							
.834	-.0470						
.850				-.1030	-.2240	-.2400	
.857			-.0920				
.865	-.0570						
.900	-.0400			-.0840			-.2240
.905			-.0660				
.950				-.0720	-.1730	-.2160	
.953			-.0350				
.965	-.0090						

MACH (2) = 2.000 BETAT (4) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.930	-.1180	-.1080	.1170	.4630	.4200	.4430	.5790
.050				.0070	.0540	.0790	.1360
.081			-.0230				
.086		-.0640					
.094	-.1020						
.150				-.0950	-.0630	-.0410	-.0200
.177			-.0760				
.229	-.0810						
.246		-.0610					
.250				-.1410	-.1400	-.1050	-.1060
.362	-.0440						
.400				-.1840	-.1910		-.1540
.402			-.1490				
.497	-.0780						
.550				-.2070	-.2180		
.565			-.1730				
.600							-.2180
.650						-.2210	
.700	-.1290				-.2250		
.725				-.2080			
.750						-.2300	-.2330
.760			-.1240				
.775				-.1440	-.2230		
.808			-.1050				
.834	-.0650						
.850				-.1060	-.2020	-.2150	
.857			-.0890				
.865	-.0720						
.900	-.0570			-.0870			-.2140
.905			-.0640				
.950				-.0750	-.1280	-.1850	
.953			-.0430				

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1019

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU06)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0320						

MACH (2) = 2.000 BETAT (5) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1470	-.1450	.0740	.4120	.3960	.4320	.4430
.050				-.0120	.0550	.0880	.1100
.081			-.0340				
.086		-.0670					
.094	-.1110						
.150				-.0970	-.0600	-.0360	-.0320
.177			-.0740				
.229	-.0860						
.246		-.0660					
.250				-.1380	-.1370	-.1090	-.1090
.362	-.0480						
.400				-.1800	-.1860		-.1560
.402			-.1500				
.497	-.0840						
.550				-.2030	-.2150		
.565			-.1680				
.600							-.2140
.650						-.2230	
.700	-.1300				-.2240		
.725				-.1910			
.750						-.2290	-.2260
.760			-.1160				
.775				-.1360	-.2150		
.808			-.0970				
.834	-.0630						
.850				-.0980	-.1990	-.2130	
.857			-.0800				
.865	-.0680						
.900	-.0560			-.0790			-.1930
.905			-.0580				
.950				-.0660	-.1190	-.1830	
.953			-.0390				
.965	-.0340						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOUJ7) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0550	.1070	.3830	.8000	.7730	.8010	.8220
.050				.1060	.1870	.2340	.3110
.081			.0680				
.086		.0670					
.094	.0730						
.150				-.0870	-.0240	-.0020	.0220
.177			-.0970				
.229	.0300						
.246		-.0700					
.250				-.1970	-.1680	-.1290	-.1260
.362	-.0270						
.400				-.2880	-.2690		-.2110
.402			-.2360				
.497	-.0810						
.550				-.3040	-.3380		
.565			-.2400				
.600							-.3330
.650						-.3550	
.700	-.1660				-.3590		
.725				-.2220			
.750						-.3610	-.3400
.760			-.0970				
.775				-.1020	-.3510		
.808			-.0470				
.834	.0370						
.850				-.0780	-.3260	-.3350	
.857			.0110				
.865	.0270						
.900	.0530			-.0580			-.2600
.905			.0560				
.950				-.0240	-.1090	-.2820	
.953			.0910				
.965	.0750						

MACH (1) = 1.555 BETAT (2) = -5.090

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0070	.0610	.3300	.7410	.7080	.7410	.7790
.050				.0810	.1750	.2140	.2870
.081			.0440				
.086		.0310					
.094	.0290						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU07)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -5.690

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0990	-.0370	-.0130	.0050
.177			-.0940				
.229	.0130						
.246		-.0640					
.250				-.1970	-.1710	-.1320	-.1310
.362	-.0430						
.400				-.2680	-.2710		-.2170
.402			-.2240				
.497	-.0790						
.550				-.2910	-.3300		
.565		-.2380					
.600							-.3340
.650						-.3490	
.700	-.1760				-.3400		
.725				-.2260			
.750						-.3560	-.3450
.760			-.0960				
.775				-.1050	-.3320		
.808			-.0470				
.834	.0150						
.850				-.0800	-.2970	-.3230	
.857			.0030				
.865	-.0020						
.900	.0210			-.0560			-.2560
.905			.0370				
.950				-.0160	-.0930	-.2780	
.953			.0650				
.965	.0440						

MACH (1) = 1.555 BETAT (3) = -3.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0510	.0150	.2780	.6470	.6490	.6880	.7340
.050				.0530	.1490	.2000	.2670
.081			.0380				
.086		.0200					
.094	-.0070						
.150				-.0850	-.0420	-.0240	-.0130
.177			-.0860				
.229	-.0180						
.246		-.0610					
.250				-.1830	-.1710	-.1430	-.1430
.362	-.0290						
.400				-.2550	-.2680		-.2240
.402			-.2270				
.497	-.0950						

AMES 97-707 IA9 OEA + S3 + T9 UPPER WING

(RBOU07)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (3) = -3.070	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.2870	-.3150		
		.565			-.2420				
		.600							-.3370
		.650						-.3490	
		.700	-.1810			-.3260			
		.725			-.2010				
		.750					-.3520	-.3480	
		.760			-.0960				
		.775				-.0980	-.3250		
		.808			-.0440				
		.834	-.0090						
		.850				-.0720	-.2870	-.3150	
		.857			-.0010				
		.865	-.0270						
		.900	-.0020			-.0500			-.2960
		.905			.0190				
		.950				-.0150	-.1000	-.2730	
		.953			.0360				
		.965	.0160						

MACH (1) = 1.555	BETAT (4) = 5.040	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1820	-.1040	.1300	.4690	.5500	.5440	.5730
		.050				.0910	.1620	.1670	.1960
		.081			.0140				
		.086		-.0130					
		.094	-.0960						
		.150				-.0260	-.0230	-.0390	-.0480
		.177			-.0620				
		.229	-.0250						
		.246		-.0700					
		.250				-.1090	-.1400	-.1280	-.1590
		.362	-.0430						
		.400				-.1960	-.2230		-.2220
		.402			-.1560				
		.497	-.1080						
		.550				-.2230	-.2630		
		.565			-.1610				
		.600							-.3280
		.650						-.3120	
		.700	-.0320				-.2760		
		.725				-.0510			
		.750						-.3070	-.3280
		.760			-.0060				
		.775				-.0030	-.2140		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU07)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0070				
.834	.0600						
.850				.0270	-.0650	-.2570	
.857			.0200				
.865	-.0080						
.900	.0130			.0260			-.2420
.905			.0200				
.950				.0430	.0480	-.0770	
.953			.0270				
.965	.0080						

MACH (1) = 1.555 BETAT (5) = 7.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2170	-.1170	.2250	.5520	.4690	.4420	.4630
.090				.0600	.1060	.1110	.1390
.081			.0870				
.086		.0500					
.094	-.1180						
.150				-.0330	-.0500	-.0670	-.0800
.177			.0030				
.229	-.0330						
.246		-.0010					
.250				-.1080	-.1560	-.1450	-.1600
.362	.0150						
.400				-.1900	-.2180		-.2090
.402			-.1470				
.497	-.0240						
.550				-.2150	-.2600		
.565			-.1490				
.600							-.3150
.650						-.2930	
.700	-.0570				-.2740		
.725				-.0600			
.750						-.2840	-.3180
.760			-.0310				
.775				-.0240	-.1880		
.808			-.0250				
.834	.0070						
.850				-.0060	-.0520	-.2380	
.857			-.0260				
.865	-.0500						
.900	-.0350			-.0180			-.2240
.905			-.0290				
.950				-.0120	.0630	-.0510	
.953			-.0270				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU07)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0400						

MACH (1) = 1.555 BETAT (6) = 9.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1920	-.0540	.1670	.4210	.3630	.4280	.4200
.050				.0140	.0990	.1290	.1350
.081			.0570				
.086		.0110					
.094	-.0340						
.150				-.0700	-.0370	-.0560	-.0790
.177			-.0230				
.229	.0110						
.246		-.0350					
.250				-.1520	-.1380	-.1550	-.1740
.362	-.0190						
.400				-.2030	-.1970		-.2310
.402			-.1780				
.497	-.0660						
.550				-.2090	-.2530		
.565			-.1970				
.600							-.3250
.650						-.3010	
.700	-.1260				-.2680		
.725				-.0570			
.750						-.3020	-.3360
.760			-.0380				
.775				-.0310	-.1840		
.808			-.0290				
.834	-.0130						
.850				-.0160	-.0740	-.2600	
.857			-.0310				
.865	-.0640						
.900	-.0410			-.0280			-.2350
.905			-.0380				
.950				-.0270	.0170	-.0770	
.953			-.0350				
.965	-.0440						

MACH (2) = 2.000 BETAT (1) = -8.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0370	.1610	.4740	.9910	.9200	.9300	.9700
.050				.2070	.3060	.3350	.4120
.081			.1130				
.086		.1290					
.094	.0710						

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU07)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0150	.0930	.1090	.1520
.177			-.0330				
.229	.0860						
.246		.0210					
.250				-.0900	-.0400	.0010	.0180
.362	.0600						
.400				-.1750	-.1400		-.0630
.402			-.1230				
.497	-.0040						
.550				-.2040	-.1980		
.565			-.1520				
.600							-.1610
.650						-.1850	
.700	-.0710				-.2130		
.725				-.2090			
.750						-.2000	-.1880
.760			-.0800				
.775				-.1850	-.2170		
.808			-.0510				
.834	.0350						
.850				-.0450	-.2060	-.1860	
.857			-.0440				
.865	.0540						
.900	.0860			-.0150			-.1670
.905			-.0130				
.950				-.0080	-.1780	-.1620	
.953			.0380				
.965	.1210						

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0080	.1310	.4210	.9020	.8350	.8460	.8960
.050				.1770	.2590	.2990	.3780
.081			.0790				
.086		.0980					
.094	.0340						
.150				-.0070	.0560	.0900	.1300
.177			-.0430				
.229	.0560						
.246		.0070					
.250				-.1140	-.0660	-.0200	-.0010
.362	.0340						
.400				-.1900	-.1560		-.0790
.402			-.1330				
.497	-.0220						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU07)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2100	-.2060		
.565			-.1640				
.600							-.1760
.650						-.1970	
.700	-.0840				-.2250		
.725				-.2120			
.750						-.2090	-.2030
.760			-.0960				
.775				-.1860	-.2260		
.808			-.0630				
.834	-.0020						
.850				-.0560	-.2150	-.2010	
.857			-.0490				
.865	.0250						
.900	.0540			-.0360			-.1760
.905			-.0170				
.950				-.0190	-.1890	-.1760	
.953				.0360			
.965	.0980						

MACH (2) = 2.000 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0170	.0830	.3470	.8270	.7530	.7770	.8180
.050				.1260	.2170	.2630	.3350
.081			.0650				
.086		.0720					
.094	.0060						
.150				-.0500	.0290	.0630	.0990
.177			-.0460				
.229	.0300						
.246		-.0110					
.250				-.1340	-.0870	-.0400	-.0230
.362	.0210						
.400				-.1910	-.1690		-.0970
.402			-.1360				
.497	-.0330						
.550				-.1980	-.2160		
.565			-.1640				
.600							-.1890
.650						-.2120	
.700	-.1090				-.2310		
.725				-.2110			
.750						-.2230	-.2160
.760			-.0910				
.775				-.1720	-.2330		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUD7)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0680				
.834	-.0020						
.850				-.0770	-.2210	-.2160	
.857			-.0590				
.865	.0000						
.900	.0260			-.0510			-.1860
.905			-.0280				
.950				-.0390	-.1850	-.1880	
.955			.0110				
.965	.0670						

MACH (2) = 2.000 BETAT (4) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0860	-.0730	.1450	.4870	.4220	.4090	.4750
.050				.0560	.1060	.1340	.1810
.081			.0190				
.086		-.0300					
.094	-.0680						
.150				-.0540	-.0230	.0010	.0100
.177			-.0410				
.229	-.0510						
.246		-.0370					
.250				-.1070	-.1070	-.0780	-.0750
.362	-.0180						
.400				-.1620	-.1660		-.1290
.402			-.1310				
.497	-.0610						
.550				-.1890	-.1990		
.565			-.1600				
.600							-.1990
.650						-.2070	
.700	-.1130				-.2080		
.725				-.1990			
.750						-.2110	-.2180
.760			-.1040				
.775				-.1360	-.2020		
.808			-.0840				
.834	-.0430						
.850				-.0900	-.1860	-.1930	
.857			-.0630				
.865	-.0530						
.900	-.0380			-.0690			-.1950
.905			-.0410				
.950				-.0520	-.1180	-.1610	
.955			-.0230				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUD7)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.965	-.0210					

MACH (2) = 2.000 BETAT (5) = 5.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.1150	-.1090	.0900	.4090	.3900	.3860
	.050			.0300	.0940	.1360	.4220
	.081			.0020			.1720
	.086		-.0350				
	.094	-.0870					
	.150			-.0570	-.0260	-.0060	.0080
	.177		-.0380				
	.229	-.0490					
	.246		-.0420				
	.250			-.1070	-.1070	-.0830	-.0750
	.362	-.0250					
	.400			-.1560	-.1650		-.1260
	.402		-.1290				
	.497	-.0660					
	.550			-.1860	-.1990		
	.565		-.1540				
	.600						-.1960
	.650					-.2000	
	.700	-.1160			-.2030		
	.725			-.1840			
	.750					-.2080	-.2210
	.760		-.0990				
	.775			-.1290	-.1980		
	.808		-.0750				
	.834	-.0460					
	.850			-.0840	-.1810	-.1880	
	.857		-.0570				
	.865	-.0540					
	.900	-.0430		-.0630			-.1970
	.905		-.0380				
	.950			-.0420	-.1000	-.1590	
	.953		-.0270				
	.965	-.0270					

MACH (2) = 2.000 BETAT (6) = 8.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.1400	-.1340	.0510	.3290	.3460	.4960
	.050				.0090	.0800	.1960
	.081			.0060			.2350
	.086		-.0360				
	.094	-.1010					

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1029

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUD7)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0620	-.0330	.0360	.0510
.177			-.0390				
.229	-.0470						
.246		-.0500					
.250				-.1060	-.1060	-.0410	-.0390
.362	-.0280						
.400				-.1630	-.1440		-.1030
.402			-.1340				
.497	-.0740						
.550				-.1830	-.1630		
.565			-.1500				
.600							-.1820
.650						-.1800	
.700	-.1180				-.1740		
.725				-.1740			
.750						-.1880	-.2120
.760			-.0970				
.775				-.1030	-.1740		
.808			-.0700				
.834	-.0440						
.850				-.0430	-.1580	-.1700	
.857			-.0480				
.865	-.0580						
.900	-.0460			-.0180			-.1800
.905			-.0220				
.950				.0000	-.0820	-.1380	
.953			-.0080				
.965	-.0320						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUD8) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0890	.1230	.4170	.8070	.7780	.7880	.8260
.050				.1590	.2670	.3110	.3870
.081			.1150				
.086		.1020					
.094	.1090						
.150				-.0230	.0280	.0530	.0640
.177			-.0420				
.229	.0710						
.246		-.0240					
.250				-.1520	-.1180	-.0780	-.0810
.362	.0110						
.400				-.2390	-.2340		-.1690
.402			-.1990				
.497	-.0500						
.550				-.2740	-.3000		
.565			-.2020				
.600							-.2970
.650						-.3200	
.700	-.1270				-.3140		
.725				-.1390			
.750						-.3280	-.3170
.760			-.0430				
.775				-.0550	-.3140		
.808			.0200				
.834	.0880						
.850				-.0300	-.2330	-.2950	
.857			.0740				
.865	.0610						
.900	.0850			.0010			-.2530
.905			.1120				
.950				.0440	-.0570	-.2440	
.953			.1370				
.965	.1160						

MACH (1) = 1.555 BETAT (2) = -6.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0540	.0860	.3460	.7460	.7100	.7310	.7730
.050				.1230	.2410	.2920	.3670
.081			.1050				
.086		.0730					
.094	.0770						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1031

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUD8)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0390	.0190	.0410	.0520
.177			-.0460				
.229	.0460						
.246		-.0310					
.250				-.1580	-.1290	-.0860	-.0890
.362	-.0080						
.400				-.2300	-.2390		-.1780
.402			-.1950				
.497	-.0530						
.550				-.2670	-.2940		
.565			-.2040				
.600							-.3040
.650						-.3230	
.700	-.1440				-.3070		
.725				-.1660			
.750						-.3310	-.3230
.760			-.0470				
.775				-.0590	-.3040		
.808			.0100				
.834	.0590						
.850				-.0270	-.2430	-.2890	
.857			.0520				
.865	.0330						
.900	.0570			.0060			-.2400
.905			.0770				
.950				.0460	-.0650	-.2410	
.953			.0990				
.965	.0760						

MACH (1) = 1.555 BETAT (3) = -3.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0360	.0340	.2630	.6120	.5950	.6280	.6800
.050				.1190	.2110	.2670	.3250
.081			.0890				
.086		.0490					
.094	.0220						
.150				-.0400	.0010	.0170	.0340
.177			-.0340				
.229	.0130						
.246		-.0290					
.250				-.1360	-.1300	-.0930	-.1000
.362	.0010						
.400				-.2220	-.2240		-.1800
.402			-.1950				
.497	-.0690						

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU58)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.070		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.2610	-.2800		
		.565			-.2100				
		.600							-.3080
		.650						-.3130	
		.700	-.1510				-.2950		
		.725				-.1500			
		.750						-.3180	-.3270
		.760			-.0480				
		.775				-.0660	-.2930		
		.808			.0020				
		.834	.0340						
		.850				-.0290	-.2120	-.2750	
		.857			.0300				
		.865	-.0070						
		.900	.0180			.0040			-.2670
		.905			.0430				
		.950				.0410	-.0640	-.2290	
		.953			.0590				
		.965	.0360						
MACH (1) = 1.555 BETAT (4) = 5.030		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1640	-.0630	.1270	.4020	.5010	.5020	.5440
		.050				.0710	.2380	.2410	.2610
		.081			.0460				
		.086		-.0050					
		.094	-.0720						
		.150				.0110	.0310	.0240	.0120
		.177			-.0240				
		.229	-.0130						
		.246		-.0580					
		.250				-.0670	-.0890	-.0700	-.0990
		.362	-.0230						
		.400				-.1630	-.1730		-.1690
		.402			-.1350				
		.497	-.1000						
		.550				-.1980	-.2280		
		.565			-.1540				
		.600							-.2890
		.650						-.2680	
		.700	-.0730				-.2470		
		.725				-.0160			
		.750						-.2740	-.3070
		.760			.0090				
		.775				.0200	-.1660		

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1033

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU08)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0230				
.834	.0790						
.850				.0420	-.0320	-.2280	
.857			.0290				
.865	.0000						
.900	.0270			.0390			-.2250
.905			.0370				
.950				.0590	.0750	-.0450	
.953			.0480				
.965	.0280						

MACH (1) = 1.555 BETAT (5) = 7.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1980	-.0760	.1730	.4850	.4560	.4190	.4390
.050				.1400	.1940	.1930	.2170
.081			.1160				
.086		.0640					
.094	-.0810						
.150				.0150	.0100	-.0080	.0080
.177			.0480				
.229	-.0180						
.246		.0020					
.250				-.0610	-.0990	-.0860	-.0840
.362	.0420						
.400				-.1580	-.1660		-.1540
.402			-.1290				
.497	-.0290						
.550				-.1880	-.2310		
.565			-.1250				
.600							-.2740
.650						-.2500	
.700	-.0290				-.2400		
.725				-.0210			
.750						-.2500	-.3020
.760			-.0010				
.775				.0090	-.0920		
.808			-.0010				
.834	.0470						
.850				.0180	-.0020	-.1460	
.857			-.0090				
.865	-.0350						
.900	-.0150			.0020			-.2070
.905			-.0110				
.950				.0030	.0930	-.0010	
.953			-.0070				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU08)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.050	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW	.965	-.0180					
MACH (1) = 1.555 BETAT (6) = 9.070	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW	.000	-.1630	-.0240	.1600	.3860	.3550	.3950
		.050			.0850	.1860	.2070	.2020
		.081		.0790				
		.086	.0250					
		.094	.0150					
		.150			-.0250	.0240	.0070	-.0210
		.177		.0190				
		.229	.0260					
		.246	-.0210					
		.250			-.0960	-.0810	-.0760	-.1160
		.362	.0060					
		.400			-.1630	-.1570		-.1650
		.402		-.1530				
		.497	-.0550					
		.550			-.1830	-.2220		
		.565		-.1730				
		.600						-.2770
		.650					-.2630	
		.700	-.0920			-.2340		
		.725			-.0200			
		.750					-.2600	-.3110
		.760		-.0080				
		.775			.0000	-.0970		
		.808		-.0070				
		.834	.0110					
		.850			.0070	-.0230	-.1480	
		.857		-.0160				
		.865	-.0330					
		.900	-.0140		-.0110			-.2230
		.905		-.0210				
		.950			-.0110	.0670	.0050	
		.953		-.0150				
		.965	-.0210					
MACH (2) = 2.000 BETAT (1) = -8.310	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW	.000	.0420	.1600	.4610	.9370	.9080	.9130
		.050				.2450	.3420	.3860
		.081			.1340			
		.086	.1470					
		.094	.0900					

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1035

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBQU08)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -0.310

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.150					.0450	.1310	.1410	.1900
.177				-.0010				
.229	.1110							
.246		.0460						
.250				-.0630	-.0130	.0240	.0510	
.362	.0710							
.400				-.1500	-.1190		-.0350	
.402				-.0990				
.497	.0120							
.550				-.1750	-.1820			
.565				-.1300				
.600								-.1450
.650							-.1690	
.700	-.0540				-.1950			
.725				-.1890				
.750							-.1830	-.1740
.760				-.0450				
.775					-.1180	-.1990		
.808				-.0220				
.834	.0710							
.850					-.0150	-.1850	-.1660	
.857				-.0110				
.865	.0820							
.900	.1130				.0050			-.1380
.905				.0340				
.950					.0090	-.1510	-.1440	
.953				.0930				
.965	.1420							

MACH (2) = 2.000 BETAT (2) = -6.270

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.000	.0100	.1230	.3930	.9020	.8180	.8330	.8930	
.050				.2210	.2980	.3490	.4320	
.081				.1320				
.086		.1180						
.094	.0620							
.150				.0200	.0880	.1240	.1680	
.177			.0100					
.229	.0800							
.246		.0250						
.250				-.0800	-.0400	.0080	.0330	
.362	.0510							
.400				-.1570	-.1290		-.0520	
.402				-.1010				
.497	-.0090							

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBO008)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.1800	-.1840		
		.565			-.1400				
		.600							-.1560
		.650						-.1790	
		.700	-.0570				-.2010		
		.725				-.1900			
		.750						-.1920	-.1880
		.760			-.0530				
		.775				-.1250	-.2020		
		.808			-.0210				
		.834	.0410						
		.850				-.0260	-.1860	-.1860	
		.857				.0000			
		.865	.0460						
		.900	.0830			-.0530			-.1610
		.905			.0390				
		.950				.0050	-.1490	-.1520	
		.953			.0850				
		.965	.1210						
MACH (2) = 2.000 BETAT (3) = -4.230		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.0130	.0830	.3670	.7360	.7390	.7510	.8090
		.050				.1590	.2560	.3120	.3840
		.081			.1160				
		.086		.0890					
		.094	.0360						
		.150				-.0020	.0610	.1020	.1380
		.177			-.0050				
		.229	.0540						
		.246		.0180					
		.250				-.0870	-.0560	-.0090	.0110
		.362	.0380						
		.400				-.1490	-.1400		-.0700
		.402			-.1110				
		.497	-.0080						
		.550				-.1730	-.1880		
		.565			-.1400				
		.600							-.1670
		.650						-.1880	
		.700	-.0830				-.2020		
		.725				-.1860			
		.750						-.1980	-.2000
		.760			-.0640				
		.775				-.1160	-.2000		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUG8)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0410				
.834	.0310						
.850				-.0310	-.1830	-.1880	
.857			-.0250				
.865	.0300						
.900	.0600			-.0050			-.1700
.905			.0160				
.950				.0090	-.1400	-.1590	
.953			.0650				
.965	.0950						

MACH (2) = 2.000 BETAT (4) = 3.920

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0640	-.0440	.1660	.4900	.4370	.4140	.4680
.050				.0910	.1600	.1910	.2330
.081			.0590				
.086		.0070					
.094	-.0370						
.150				-.0180	.0170	.0390	.0480
.177			-.0020				
.229	-.0120						
.246		-.0050					
.250				-.0750	-.0750	-.0410	-.0410
.362	.0130						
.400				-.1380	-.1430		-.0980
.402			-.1060				
.497	-.0370						
.550				-.1710	-.1790		
.565			-.1400				
.600							-.1750
.650						-.1860	
.700	-.0930			-.1680			
.725				-.1790			
.750						-.1900	-.2050
.760			-.0800				
.775				-.1200	-.1840		
.808			-.0520				
.834	-.0110						
.850				-.0660	-.1680	-.1680	
.857			-.0320				
.865	-.0300						
.900	-.0130			-.0430			-.1700
.905			-.0070				
.950				-.0210	-.1160	-.1360	
.953			.0070				

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU08)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.920

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.965	.0020					

MACH (2) = 2.000 BETAT (5) = 5.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.0850	-.0830	.1030	.3970	.3710	.3720
	.050				.0550	.1280	.1770
	.081			.0390			.2180
	.086		-.0030				
	.094	-.0610					
	.150						
	.177			-.0050			
	.229	-.0150			-.0290	.0050	.0230
	.246		-.0160				.0380
	.250						
	.362	.0070			-.0820	-.0820	-.0530
	.400						-.0470
	.402				-.1420	-.1470	
	.497	-.0480					-.1000
	.550						
	.565				-.1750	-.1800	
	.600				-.1400		
	.650						-.1790
	.700	-.0980				-.1830	
	.725					-.1860	
	.750				-.1730		
	.760						-.1890
	.775						-.2130
	.808				-.0800		
	.834	-.0190					
	.850						
	.857				-.1180	-.1840	
	.865				-.0520		
	.865	-.0350					
	.900	-.0220					
	.905				-.0650	-.1660	-.1640
	.950				-.0350		
	.953						
	.965	-.0130					

MACH (2) = 2.000 BETAT (6) = 8.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.1120	-.1100	.0730	.3280	.2980	.3760
	.050				.0400	.1040	.2390
	.081			.0300			.2790
	.086		-.0100				
	.094	-.0780					

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1039

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU08)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0350	-.0150	.0740	.0860
.177			-.0170				
.229	-.0180						
.246		-.0300					
.250				-.0840	-.0940	-.0200	-.0120
.362	-.0060						
.400				-.1460	-.1490		-.0740
.402			-.1210				
.497	-.0600						
.550				-.1700	-.1520		
.565			-.1430				
.600							-.1610
.650						-.1600	
.700	-.1040				-.1600		
.725				-.1720			
.750						-.1680	-.1980
.760			-.0750				
.775				-.0980	-.1590		
.808			-.0460				
.834	-.0210						
.850				-.0430	-.1390	-.1480	
.857			-.0290				
.865	-.0390						
.900	-.0270			-.0170			-.1550
.905			-.0150				
.950				.0140	-.0310	-.1160	
.953			-.0130				
.965	-.0230						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOUD9) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0990	.1110	.3830	.7980	.7690	.7660	.8100
.050				.2140	.3250	.3730	.4350
.081			.1590				
.086		.1240					
.094	.1380						
.150				.0230	.0780	.0980	.1080
.177			.0140				
.229	.0920						
.246		.0150					
.250				-.0940	-.0790	-.0340	-.0380
.362	.0390						
.400				-.1950	-.1950		-.1320
.402			-.1620				
.497	-.0200						
.550				-.2380	-.2610		
.565			-.1650				
.600							-.2720
.650						-.2900	
.710	-.0960				-.2760		
.725				-.0660			
.750						-.2940	-.2930
.760			.0190				
.775				-.0050	-.2760		
.808			.0760				
.834	.1340						
.850				.0290	-.1500	-.2580	
.857			.1170				
.865	.0820						
.900	.1090			.0650			-.2250
.905			.1420				
.950				.1200	-.0140	-.2050	
.953			.1620				
.965	.1440						

MACH (1) = 1.555 BETAT (2) = -6.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0610	.0790	.3170	.6950	.6890	.7090	.7510
.050				.1990	.3050	.3550	.4150
.081			.1580				
.086		.1030					
.094	.0990						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1041

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU09)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0150	.0630	.0840	.0980
.177			.0100				
.229	.0770						
.246		-.0020					
.250				-.1000	-.0800	-.0410	-.0460
.362	.0210						
.400				-.1930	-.1910		-.1350
.402			-.1590				
.497	-.0210						
.550				-.2310	-.2540		
.565		-.1730					
.600							-.2730
.650						-.2860	
.700	-.1090				-.2690		
.725				-.0840			
.750						-.2920	-.2960
.760			.0110				
.775				-.0190	-.2660		
.808			.0610				
.834	.1110						
.850				.0240	-.1570	-.2490	
.857			.0900				
.865	.0540						
.900	.0820			.0570			-.2310
.905			.1080				
.950				.1030	-.0150	-.1970	
.953			.1280				
.965	.1040						

MACH (1) = 1.555 BETAT (3) = -4.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0190	.0530	.2720	.6290	.6140	.6260	.6820
.050				.1920	.2910	.3370	.3890
.081			.1440				
.086		.0710					
.094	.0630						
.150				.0210	.0540	.0780	.0910
.177			.0270				
.229	.0540						
.246		.0050					
.250				-.0790	-.0800	-.0380	-.0460
.362	.0280						
.400				-.1850	-.1810		-.1380
.402			-.1620				
.497	-.0340						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU09)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2300	-.2470		
.565			-.1740				
.600							-.2740
.650						-.2810	
.700	-.1160				-.2640		
.725				-.0830			
.750						-.2850	-.3000
.760			.0060				
.775				-.0220	-.2640		
.808			.0510				
.834	.0970						
.850				.0270	-.1440	-.2440	
.857			.0700				
.865	.0280						
.900	.0550			.0590			-.2370
.905			.0820				
.950				.0980	-.0130	-.1950	
.953			.0970				
.965	.0790						

MACH (1) = 1.555 BETAT (4) = 3.640

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1160	-.0290	.1280	.4240	.3670	.3350	.5390
.050				.1530	.2160	.2570	.3600
.081			.0920				
.086		.0110					
.094	-.0060						
.150				.0020	.0240	.1010	.5950
.177			.0130				
.229	.0130						
.246		-.0370					
.250				-.0880	-.0910	-.0020	-.0210
.362	-.0060						
.400				-.1780	-.1750		-.1060
.402			-.1600				
.497	-.0820						
.550				-.2130	-.1940		
.565			-.1730				
.600							-.2450
.650						-.2320	
.700	-.0810				-.2120		
.725				-.0130			
.750						-.2370	-.2790
.750			-.0220				
.775				.0490	-.1550		

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1043

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUD9)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 3.640

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0060				
.834	.0460						
.850				.0760	.0190	-.1950	
.857			.0190				
.865	-.0520						
.900	-.0260			.0640			-.1850
.905			.0280				
.950				.0750	.1190	.0010	
.953			.0450				
.965	-.0200						

MACH (1) = 1.555 BETAT (5) = 5.690

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1520	-.0370	.0960	.4770	.4010	.4460	.4600
.050				.2220	.2700	.3050	.3080
.081			.0840				
.086		.0030					
.094	-.0250						
.150				.0500	.0670	.0780	.0640
.177			.0140				
.229	.0120						
.246		-.0410					
.250				-.0370	-.0440	-.0090	-.0390
.362	-.0030						
.400				-.1420	-.1230		-.1140
.402			-.1170				
.497	-.0850						
.550				-.1670	-.1930		
.565			-.0920				
.600							-.2440
.650						-.2330	
.700	.0080				-.2030		
.725				.0350			
.750						-.2350	-.2850
.760			.0410				
.775				.0580	-.0370		
.808			.0380				
.834	.1140						
.850				.0620	.0520	-.0690	
.857			.0310				
.865	-.0090						
.900	.0240			.0520			-.1970
.905			.0370				
.950				.0640	.1180	.0300	
.953			.0500				

AMES 97-707 IA9 OEA + S3 + T9 UPPER WING

(RBOUG9)

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP							
MACH (1) = 1.555	BETAT (5) = 5.690	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	.0320						
MACH (1) = 1.555	BETAT (6) = 7.740	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1810	-.0120	.1310	.4060	.3580	.3380	.4210
		.050				.1920	.2370	.2410	.3020
		.081			.1390				
		.086		.0540					
		.094	-.0380						
		.150				.0490	.0510	.0550	.0680
		.177			.0780				
		.229	.0900						
		.246		-.0040					
		.250				-.0380	-.0540	-.0110	-.0260
		.362	.0470						
		.400				-.1400	-.1360		-.1160
		.402			-.1150				
		.497	-.0330						
		.550				-.1630	-.1890		
		.565		-.1140					
		.600							-.2350
		.650						-.2140	
		.700	-.0240				-.1450		
		.725				-.0010			
		.750						-.2230	-.2770
		.760			.0120				
		.775				.0350	-.0080		
		.808			.0070				
		.834	.0690						
		.850				.0480	.0420	-.0360	
		.857			-.0060				
		.865	-.0350						
		.900	-.0210			.0410			-.1800
		.905			-.0050				
		.950				.0400	.1070	.0850	
		.953			.0090				
		.965	-.0220						
MACH (2) = 2.000	BETAT (1) = -8.340	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	.0480	.1690	.4270	.9240	.8850	.8960	.9450
		.050				.2760	.3910	.4400	.5100
		.081			.1890				
		.086		.1700					
		.094	.1370						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUD9)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0670	.1720	.1780	.2270
.177			.0510				
.229	.1400						
.246		.0700					
.250				-.0360	.0190	.0600	.0840
.362	.0940						
.400				-.1140	-.0900		-.0020
.402			-.0750				
.497	.0240						
.550				-.1410	-.1580		
.565			-.1090				
.600							-.1220
.650						-.1470	
.700	-.0380				-.1710		
.725				-.1660			
.750						-.1630	-.1570
.760			-.0040				
.775				-.0770	-.1720		
.808			.0220				
.834	.1060						
.850				.0150	-.1520	-.1420	
.857			.0420				
.865	.1100						
.900	.1450			.0380			-.1270
.905			.0840				
.950				.0390	-.1120	-.1170	
.953			.1350				
.965	.1690						

MACH (2) = 2.000 BETAT (2) = -6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0130	.1220	.3930	.8030	.8190	.8070	.8790
.050				.2320	.3410	.3990	.4780
.081			.1670				
.086		.1390					
.094	.1090						
.150				.0680	.1260	.1650	.2060
.177			.0450				
.229	.1080						
.246		.0520					
.250				-.0300	-.0090	.0470	.0700
.362	.0750						
.400				-.1170	-.1030		-.0210
.402			-.0720				
.497	.0100						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUG9)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1500	-.1580		
.565			-.1200				
.600							-.1330
.650						-.1540	
.700	-.0380				-.1710		
.725				-.1650			
.750						-.1680	-.1690
.760			-.0300				
.775				-.0650	-.1680		
.808				.0050			
.834	.0760						
.850				.0190	-.1510	-.1520	
.857				.0360			
.865	.0740						
.900	.1100			.0410			-.1360
.905				.0890			
.950				.0470	-.1040	-.1210	
.953				.1380			
.965	.1510						

MACH (2) = 2.000 BETAT (3) = -4.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0160	.0830	.3570	.7170	.6830	.7460	.7970
.050				.2140	.2850	.3590	.4360
.081			.1650				
.086		.1040					
.094	.0780						
.150				.0550	.1050	.1300	.1750
.177				.0410			
.229	.0780						
.246		.0430					
.250				-.0460	-.0150	.0280	.0450
.362	.0590						
.400				-.1190	-.1030		-.0410
.402			-.0930				
.497	.0070						
.550				-.1450	-.1580		
.565			-.1220				
.600							-.1430
.650						-.1610	
.700	-.0610				-.1720		
.725				-.1650			
.750						-.1740	-.1800
.760			-.0340				
.775				-.0730	-.1710		

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU09)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0080				
.834	.0670						
.850				-.0040	-.1500	-.1580	
.857			.0210				
.865	.0540						
.900	.0890			.0190			-.1450
.905			.0690				
.950				.0260	-.0990	-.1260	
.953			.1210				
.965	.1190						

MACH (2) = 2.000 BETAT (4) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0260	-.0170	.1810	.4900	.4420	.4100	.4530
.050				.1350	.2040	.2490	.2810
.081			.0990				
.086		.0350					
.094	-.0050						
.150				.0260	.0580	.0780	.0890
.177			.0350				
.229	.0270						
.246		.0240					
.250				-.0380	-.0400	-.0080	-.0010
.362	.0440						
.400				-.1090	-.1120		-.0650
.402			-.0820				
.497	-.0130						
.550				-.1460	-.1530		
.565			-.1190				
.600							-.1490
.650						-.1600	
.700	-.0700				-.1640		
.725				-.1510			
.750						-.1660	-.1870
.760			-.0530				
.775				-.0860	-.1630		
.808			-.0180				
.834	.0200						
.850				-.0300	-.1450	-.1390	
.857			.0050				
.865	-.0030						
.900	.0130			-.0050			-.1450
.905			.0320				
.950				.0210	-.0840	-.1100	
.953			.0410				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU09)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0240						

MACH (2) = 2.000 BETAT (5) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0800	-.0600	.1350	.3650	.3250	.2930	.4420
.050				.1030	.1620	.1950	.3210
.081			.0850				
.086		.0300					
.094	-.0430						
.150				.0180	.0350	.0580	.1230
.177			.0330				
.229	.0310						
.246		.0080					
.250				-.0390	-.0530	.0240	.0300
.362	.0360						
.400				-.1090	-.1160		-.0320
.402			-.0840				
.497	-.0260						
.550				-.1380	-.1440		
.565			-.1140				
.600							-.1280
.650						-.1310	
.700	-.0720				-.1380		
.725				-.1430			
.750						-.1390	-.1730
.760			-.0300				
.775				-.0580	-.1330		
.808			-.0020				
.834	.0300						
.850				-.0160	-.1150	-.1140	
.857			.0100				
.865	.0000						
.900	.0060			.0090			-.1260
.905			.0180				
.950				.0440	.0170	-.0810	
.953			.0180				
.965	.0060						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU10) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0930	.0810	.3520	.7570	.7490	.7420	.7930
.050				.2900	.3990	.4300	.4870
.081			.2220				
.086		.1490					
.094	.1670						
.150				.0820	.1260	.1370	.1580
.177			.0780				
.229	.1200						
.246		.0500					
.250				-.0360	-.0270	.0200	.0070
.362	.0740						
.400				-.1540	-.1430		-.0860
.402			-.1210				
.497	.0180						
.550				-.1900	-.2150		
.565			-.1300				
.600							-.2360
.650						-.2540	
.700	-.0540				-.2370		
.725				.0030			
.750						-.2610	-.2660
.760			.0800				
.775				.0460	-.2390		
.808		.1240					
.834	.1810						
.850				.1030	-.0550	-.2170	
.857			.1560				
.865	.1100						
.900	.1430			.1390			-.1990
.905			.1770				
.950				.1870	.0490	-.1600	
.953			.1900				
.965	.1700						

MACH (1) = 1.555 BETAT (2) = -6.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0630	.0750	.2880	.6860	.6640	.6670	.7210
.050				.2720	.3680	.4090	.4600
.081			.2160				
.086		.1210					
.094	.1440						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0710	.1140	.1290	.1440
.177			.0770				
.229	.1110						
.246		.0370					
.250				-.0370	-.0260	.0130	.0010
.362	.0530						
.400				-.1520	-.1460		-.0900
.402			-.1210				
.497	.0110						
.550				-.1890	-.2140		
.565			-.1380				
.600							-.2390
.650						-.2480	
.700	-.0660				-.2340		
.725				-.0110			
.750						-.2550	-.2690
.760			.0650				
.775				.0380	-.2280		
.808			.1040				
.834	.1690						
.850				.0910	-.0620	-.2110	
.857			.1220				
.865	.0850						
.900	.1140			.1220			-.2030
.905			.1400				
.950				.1620	.0520	-.1550	
.953			.1560				
.965	.1310						

MACH (1) = 1.555 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0340	.0420	.2290	.6080	.5940	.5870	.6380
.050				.2600	.3510	.3950	.4340
.081			.1950				
.086		.0880					
.094	.1070						
.150				.0710	.1110	.1220	.1370
.177			.0730				
.229	.0780						
.246		.0360					
.250				-.0320	-.0330	.0140	.0000
.362	.0610						
.400				-.1520	-.1380		-.0920
.402			-.1290				
.497	-.0100						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1051

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1970	-.2110		
.565			-.1430				
.600							-.2410
.650						-.2470	
.700	-.0710				-.2330		
.725				-.0190			
.750						-.2500	-.2750
.760			.0550				
.775				.0360	-.2300		
.808			.0880				
.834	.1450						
.850				.0890	-.0510	-.2110	
.857			.0990				
.865	.0540						
.900	.0850			.1100			-.2050
.905			.1100				
.950				.1400	.0540	-.1500	
.953			.1270				
.965	.1030						

MACH (1) = 1.555 BETAT (4) = 3.650

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0960	-.0240	.0870	.3840	.3370	.2930	.4330
.050				.2120	.2620	.2850	.3940
.081			.1340				
.086		.0300					
.094	.0430						
.150				.0470	.0690	.0880	.1370
.177			.0580				
.229	.0430						
.246		-.0070					
.250				-.0450	-.0460	.0590	.0310
.362	.0270						
.400				-.1470	-.1400		-.0700
.402			-.1250				
.497	-.0550						
.550				-.1830	-.1610		
.565			-.1380				
.600							-.2080
.650						-.2010	
.700	-.0440				-.1770		
.725				.0050			
.750						-.2050	-.2530
.760			.0120				
.775				.0700	-.0250		

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 3.650

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0190				
.834	.0880						
.850				.0960	.0740	-.1370	
.857			.0150				
.865	-.0290						
.900	-.0030			.0850			-.1550
.905			.0310				
.950				.0950	.1560	.0760	
.953			.0540				
.965	.0030						

MACH (1) = 1.555 BETAT (5) = 5.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1350	-.0270	.0670	.3230	.3620	.3120	.3880
.050				.2450	.3120	.3270	.3590
.081			.1230				
.086		.0210					
.094	.0270						
.150				.1080	.1120	.1190	.1280
.177			.0550				
.229	.0400						
.246		-.0140					
.250				.0070	-.0020	.0320	.0230
.362	.0290						
.400				-.1070	-.0940		-.0770
.402			-.0840				
.497	-.0610						
.550				-.1380	-.1680		
.565			-.0810				
.600							-.2060
.650						-.1950	
.700	.0550				-.1340		
.725				.0510			
.750						-.2000	-.2540
.760			.0580				
.775				.0780	.0190		
.808			.0590				
.834	.1400						
.850				.0820	.0830	.0050	
.857			.0550				
.865	.0180						
.900	.0410			.0730			-.1590
.905			.0600				
.950				.0940	.1460	.1080	
.953			.0680				

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1053

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 5.710

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0500						

MACH (1) = 1.555 BETAT (6) = 7.770

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1650	-.0310	.0690	.3470	.3070	.2560	.3570
.050				.2560	.2790	.2890	.3490
.081			.1710				
.086		.0830					
.094	.0150						
.150				.0870	.0970	.1420	.1370
.177			.1180				
.229	.1080						
.246		.0250					
.250				.0040	-.0110	.0700	.0320
.362	.0830						
.400				-.1080	-.1060		-.0590
.402			-.0870				
.497	-.0080						
.550				-.1390	-.1400		
.565			-.0770				
.600							-.1890
.650						-.1790	
.700	.0070				-.0160		
.725				.0230			
.750						-.1600	-.2370
.760			.0420				
.775				.0670	.0310		
.808			.0280				
.834	.1100						
.850				.0800	.0730	.0690	
.857			.0150				
.865	-.0150						
.900	-.0030			.0610			-.0540
.905			.0160				
.950				.0640	.1480	.1490	
.953			.0450				
.965	-.0010						

MACH (2) = 2.000 BETAT (1) = -8.390

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0620	.1720	.4390	.8830	.8690	.8460	.9120
.050				.3050	.4360	.4750	.5610
.081			.2380				
.086		.2080					
.094	.1940						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.390

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.1230	.1920	.2110	.2650
.177			.1060				
.229	.1810						
.246		.1090					
.250				.0180	.0460	.0960	.1230
.362	.1340						
.400				-.0830	-.0690		.0230
.402			-.0420				
.497	.0560						
.550				-.1190	-.1200		
.565			-.0840				
.600							-.1010
.650						-.1250	
.700	-.0110				-.1360		
.725				-.1390			
.750						-.1420	-.1430
.760			.0160				
.775				-.0340	-.1400		
.808			.0470				
.834	.1250						
.850				.0610	-.1220	-.1220	
.857			.0890				
.865	.1210						
.900	.1490			.0860			-.1050
.905			.1470				
.950				.0980	-.0710	-.0910	
.953			.1920				
.965	.1850						

MACH (2) = 2.000 BETAT (2) = -6.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0160	.1320	.3840	.7840	.7620	.7750	.8240
.050				.2870	.3680	.4430	.5100
.081			.2220				
.086		.1720					
.094	.1470						
.150				.1120	.1560	.1920	.2270
.177			.0960				
.229	.1480						
.246		.0890					
.250				.0020	.0290	.0770	.0990
.362	.1080						
.400				-.0960	-.0750		.0050
.402			-.0590				
.497	.0410						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOUND)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1240	-.1250		
.565			-.1030				
.600							-.1120
.650						-.1340	
.700	-.0230				-.1430		
.725				-.1390			
.750						-.1460	-.1510
.760			.0030				
.775				-.0580	-.1420		
.808			.0370				
.834	.1030						
.850				.0370	-.1220	-.1220	
.857			.0740				
.865	.1080						
.900	.1380			.0620			-.1160
.905			.1260				
.950				.0730	-.0680	-.0940	
.953			.1690				
.965	.1650						

MACH (2) = 2.000 BETAT (3) = -4.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0110	.1030	.3640	.7130	.6650	.6740	.7420
.050				.2550	.3330	.3930	.4590
.081			.2120				
.086		.1400					
.094	.1170						
.150				.0870	.1410	.1620	.1930
.177			.0810				
.229	.1180						
.246		.0840					
.250				-.0090	.0170	.0620	.0750
.362	.1010						
.400				-.0940	-.0830		-.0080
.402			-.0680				
.497	.0330						
.550				-.1290	-.1340		
.565			-.1100				
.600							-.1210
.650						-.1400	
.700	-.0490				-.1460		
.725				-.1480			
.750						-.1510	-.1630
.760			-.0130				
.775				-.0620	-.1440		

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280

Y/BW	.299	.364	.427	.534	.673	.780	.987
X/CW							
.808			.0180				
.834	.0950						
.850				.0170	-.1260	-.1310	
.857			.0580				
.865	.0770						
.900	.1100			.0390			-.1220
.905			.1100				
.950				.0530	-.0620	-.1010	
.953			.1440				
.965	.1340						

MACH (2) = 2.000 BETAT (4) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0510	.0260	.2600	.6170	.5330	.5170	.5610
.050				.2090	.2770	.3160	.3640
.081			.1500				
.086		.0920					
.094	.0660						
.150				.0690	.1080	.1200	.1420
.177			.0610				
.229	.0780						
.246		.0410					
.250				-.0180	-.0050	.0280	.0350
.362	.0590						
.400				-.0910	-.0930		-.0310
.402			-.0660				
.497	.0110						
.550				-.1310	-.1340		
.565			-.1010				
.600							-.1320
.650						-.1430	
.700	-.0410				-.1460		
.725				-.1390			
.750						-.1490	-.1690
.760			-.0190				
.775				-.0660	-.1460		
.808			.0140				
.834	.0730						
.850				.0030	-.1260	-.1260	
.857			.0490				
.865	.0380						
.900	.0630			.0270			-.1240
.905			.0780				
.950				.0550	-.0690	-.0900	
.953			.0950				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0740						

MACH (2) = 2.000 BETAT (5) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0020	-.0010	.1890	.4820	.4330	.3990	.4230
.050				.1720	.2360	.2830	.3140
.081			.1300				
.086		.0630					
.094	.0130						
.150				.0540	.0860	.1040	.1140
.177			.0650				
.229	.0560						
.246		.0440					
.250				-.0140	-.0180	.0150	.0220
.362	.0720						
.400				-.0930	-.0940		-.0370
.402			-.0670				
.497	.0030						
.550				-.1360	-.1340		
.565			-.1070				
.600							-.1280
.650						-.1400	
.700	-.0550				-.1470		
.725				-.1390			
.750						-.1490	-.1730
.760			-.0270				
.775				-.0700	-.1470		
.808			.0100				
.834	.0500						
.850				-.0050	-.1290	-.1230	
.857		.0320					
.865	.0180						
.910	.0330			.0220			-.1280
.905			.0500				
.950				.0550	-.0500	-.0910	
.953			.0590				
.965	.0410						

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0350	-.0230	.1650	.4130	.3720	.3360	.3610
.050				.1540	.2170	.2480	.2860
.081			.1190				
.086		.0600					
.094	-.0030						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0490	.0720	.0850	.1050
.177			.0650				
.229	.0570						
.246		.0350					
.250				-.0150	-.0250	.0050	.0200
.362	.0690						
.400				-.0960	-.0960		-.0410
.402			-.0660				
.497	-.0030						
.550				-.1270	-.1310		
.565			-.1020				
.600							-.1320
.650						-.1490	
.700	-.0560				-.1440		
.725				-.1350			
.750						-.1460	-.1760
.760			-.0190				
.775				-.0540	-.1440		
.808			.0180				
.834	.0560						
.850				.0010	-.1250	-.1200	
.857			.0320				
.865	.0180						
.900	.0320			.0270			-.1310
.905			.0450				
.950				.0570	-.0110	-.0880	
.953			.0460				
.965	.0350						

MACH (2) = 2.000 BETAT (7) = 8.000

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0700	-.0320	.1540	.3690	.3220	.2750	.3920
.050				.1500	.1980	.2200	.3360
.081			.1200				
.086		.0520					
.094	-.0170						
.150				.0500	.0610	.0710	.1410
.177			.0670				
.229	.0590						
.246		.0320					
.250				-.0160	-.0280	.0180	.0600
.362	.0650						
.400				-.0940	-.0880		-.0100
.402			-.0680				
.497	-.0040						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1059

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU10)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.050

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.1190	-.1270		
.565			-.0960				
.600							-.1100
.650						-.1180	
.700	-.0550				-.1330		
.725				-.1290			
.750						-.1230	-.1550
.760			-.0010				
.775				-.0300	-.1210		
.808			.0280				
.834	.0700						
.850				.0140	-.0980	-.0950	
.857			.0380				
.865	.0230						
.900	.0310			.0350			-.1070
.905			.0410				
.950				.0610	.0550	-.0610	
.953			.0380				
.965	.0290						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU11) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -15.000 ELECON = .500
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 1.555 BETAT (1) = -8.420

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0930	.0670	.3580	.7560	.7560	.7460	.7230
.050				.2890	.4020	.4360	.4950
.081			.2260				
.086		.1510					
.094	.1740						
.150				.0850	.1130	.1040	.1620
.177			.0760				
.229	.1230						
.246		.0560					
.250				-.0320	-.0240	.0230	.0150
.362	.0800						
.400				-.1520	-.1390		-.0860
.402			-.1210				
.497	.0140						
.550				-.1940	-.2130		
.565			-.1280				
.600							-.2440
.650						-.2510	
.700	-.0490				-.2360		
.725				.0100			
.750						-.2620	-.2670
.760			.0830				
.775				.0500	-.2390		
.808			.1300				
.834	.1970						
.850				.1050	-.0500	-.2230	
.857			.1620				
.865	.1160						
.900	.1470			.1440			-.2030
.905			.1840				
.950				.1950	.0520	-.1580	
.953			.1970				
.965	.1760						

MACH (1) = 1.555 BETAT (2) = -6.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0640	.0730	.2920	.6860	.6660	.6690	.6420
.050				.2730	.3740	.4150	.4610
.081			.2210				
.086		.1250					
.094	.1480						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0750	.1010	.1020	.1470
.177			.0730				
.229	.1080						
.246		.0340					
.250				-.0370	-.0280	.0150	.0040
.362	.0550						
.400				-.1520	-.1430		-.0910
.402			-.1210				
.497	.0100						
.550				-.1900	-.2150		
.565			-.1380				
.600							-.2480
.650						-.2510	
.700	-.0660				-.2350		
.725				-.0110			
.750						-.2550	-.2720
.760			.0690				
.775				.0410	-.2320		
.808			.1040				
.834	.1720						
.850				.0900	-.0630	-.2190	
.857			.1250				
.865	.0850						
.900	.1130			.1230			-.2080
.905			.1410				
.950				.1630	.0510	-.1560	
.953			.1580				
.965	.1310						

MACH (1) = 1.555 BETAT (3) = -4.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0390	.0490	.2300	.6120	.5970	.5870	.5600
.050				.2640	.3570	.3940	.4360
.081			.2000				
.086		.0920					
.094	.1140						
.150				.0750	.0970	.1040	.1430
.177			.0790				
.229	.0820						
.246		.0370					
.250				-.0380	-.0330	.0160	.0080
.362	.0610						
.400				-.1510	-.1380		-.0930
.402			-.1270				
.497	-.0050						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1990	-.2080		
.565			-.1420				
.600							-.2480
.650						-.2450	
.700	-.0740				-.2320		
.725				-.0170			
.750						-.2490	-.2730
.760			.0580				
.775				.0360	-.2310		
.808			.0890				
.834	.1530						
.850				.0860	-.0460	-.2160	
.857			.0970				
.865	.0550						
.900	.0850			.1070			-.2190
.905			.1080				
.950				.1410	.0590	-.1460	
.953			.1240				
.965	.1050						

MACH (1) = 1.555 BETAT (3) = -4.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0390	.0060	.1300	.4830	.4610	.4250	.3930
.050				.2480	.3220	.3400	.3650
.081			.1560				
.086		.0620					
.094	.0580						
.150				.0640	.0780	.0770	.1080
.177			.0620				
.229	.0700						
.246		.0040					
.250				-.0400	-.0360	-.0030	-.0130
.362	.0590						
.400				-.1530	-.1420		-.1060
.402			-.1340				
.497	-.0490						
.550				-.1940	-.2120		
.565			-.1390				
.600							-.2570
.650						-.2430	
.700	-.0420				-.2320		
.725				-.0070			
.750						-.2480	-.2880
.760			.0320				
.775				.0460	-.2030		

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.180

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.808				.0480				
.834	.1150							
.850				.0760	-.0090	-.2100		
.857			.0510					
.865	.0040							
.900	.0390			.0740				-.2080
.905			.0580					
.950				.0890	.1050	-.0360		
.953			.0730					
.965	.0480							

MACH (1) = 1.555 BETAT (5) = 3.940

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.000	-.1010	-.0290	.0750	.3720	.3210	.3440	.3390	
.050				.2100	.2570	.3910	.3810	
.081			.1310					
.086		.0260						
.094	.0290							
.150				.0480	.0390	.1220	.1370	
.177			.0650					
.229	.0410							
.246		-.0080						
.250				-.0440	-.0470	.0450	.0260	
.362	.0280							
.400				-.1450	-.0850		-.0770	
.402			-.1290					
.497	-.0580							
.550				-.1820	-.1560			
.565			-.1400					
.600							-.2200	
.650						-.2000		
.700	-.0450				-.1790			
.725				.0540				
.750						-.2040	-.2570	
.760			.0140					
.775				.0910	-.0160			
.808			.0380					
.834	.0870							
.850				.0930	.0720	-.1150		
.857			.0520					
.865	-.0320							
.900	-.0090			.0790			-.1710	
.905			.0530					
.950				.0860	.1580	.0820		
.953			.0650					

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0300						

MACH (1) = 1.555 BETAT (6) = 6.000

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1470	-.0310	.0620	.4010	.3470	.2960	.3030
.050				.2690	.3060	.3240	.3410
.081			.1170				
.086		.0180					
.094	.0190						
.150				.0940	.0760	.0970	.1130
.177			.1170				
.229	.0400						
.246		-.0150					
.250				.0000	-.0060	.0370	.0130
.362	.0270						
.400				-.1100	-.0970		-.0860
.402			-.0940				
.497	-.0620						
.550				-.1200	-.1690		
.565			-.0340				
.600							-.2190
.650						-.1970	
.700	.0320				-.0500		
.725				.0510			
.750						-.1970	-.2350
.760			.0580				
.775				.0730	.0320		
.806			.0430				
.834	.1330						
.850				.0670	.0760	.0270	
.857			.0350				
.865	.0000						
.900	.0230			.0540			-.1040
.905			.0410				
.950				.0650	.1280	.1420	
.953			.0520				
.965	.0290						

MACH (1) = 1.555 BETAT (7) = 8.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1880	.0230	.0780	.3390	.2790	.2920	.2690
.050				.2420	.2640	.3590	.3420
.081			.1640				
.086		.0590					
.094	.0270						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 9.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0820	.0470	.1160	.1330
.177			.1100				
.229	.0840						
.246		.0210					
.250				-.0080	-.0220	.0490	.0370
.362	.0700						
.400				-.1150	-.0720		-.0630
.402			-.0910				
.497	-.0160						
.550				-.1440	-.1440		
.565			-.0950				
.600							-.2130
.650						-.1780	
.700	-.0010				-.0250		
.725				.0450			
.750						-.1520	-.2450
.760			.0340				
.775				.0740	.0280		
.808			.0410				
.834	.1090						
.850				.0700	.0680	.0540	
.857			.0270				
.865	-.0280						
.900	-.0190			.0450			-.0690
.905			.0250				
.950				.0480	.1360	.1360	
.953			.0380				
.965	.0020						

MACH (2) = 2.000 BETAT (1) = -8.390

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0640	.1760	.4450	.8950	.8770	.8560	.8860
.050				.3090	.4400	.4850	.5610
.081			.2510				
.086		.2110					
.094	.1920						
.150				.1280	.1840	.1760	.2610
.177			.1120				
.229	.1830						
.246		.1100					
.250				.0150	.0430	.1010	.1250
.362	.1390						
.400				-.0850	-.0720		.0210
.402			-.0370				
.497	.0620						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.390

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1240	-.1210		
.565			-.0800				
.600							-.1090
.650						-.1260	
.700	-.0020				-.1380		
.725				-.1390			
.750						-.1410	-.1420
.760			.0220				
.775				-.0320	-.1390		
.808			.0530				
.834	.1330						
.850				.0630	-.1200	-.1220	
.857			.0920				
.865	.1260						
.900	.1600			.0900			-.1060
.905			.1520				
.950				.0990	-.0690	-.0910	
.953			.1960				
.965	.1990						

MACH (2) = 2.000 BETAT (2) = -8.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0250	.1350	.4090	.7900	.7750	.7820	.8050
.050				.2890	.3760	.4460	.5180
.081			.2350				
.086		.1760					
.094	.1520						
.150				.1170	.1550	.1570	.2340
.177			.0990				
.229	.1520						
.246		.0940					
.250				.0040	.0310	.0800	.1020
.362	.1150						
.400				-.0910	-.0700		.0100
.402			-.0540				
.497	.0460						
.550				-.1210	-.1240		
.565			-.0970				
.600							-.1170
.650						-.1310	
.700	-.0180				-.1390		
.725				-.1350			
.750						-.1440	-.1520
.760			.0080				
.775				-.0480	-.1370		

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0410				
.834	.1130						
.850				.0430	-.1190	-.1220	
.857			.0780				
.865	.1110						
.900	.1420			.0680			-.1100
.905			.1310				
.950				.0780	-.0650	-.0900	
.953			.1730				
.965	.1680						

MACH (2) = 2.000 BETAT (3) = -4.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0050	.1110	.3690	.7210	.6710	.6780	.7280
.050				.2610	.3390	.3980	.4630
.081			.2110				
.086		.1440					
.094	.1170						
.150				.0940	.1360	.1310	.1950
.177			.0800				
.229	.1210						
.246		.0820					
.250				-.0060	.0180	.0620	.0720
.362	.1070						
.400				-.0920	-.0810		-.0100
.402			-.0710				
.497	.0300						
.550				-.1280	-.1360		
.565		-.1130					
.600							-.1330
.650						-.1420	
.700	-.0470				-.1470		
.725				-.1470			
.750						-.1530	-.1630
.760			-.0130				
.775				-.0610	-.1460		
.808			.0140				
.834	.0900						
.850				.0180	-.1290	-.1340	
.857			.0600				
.865	.0750						
.910	.1080			.0400			-.1280
.905			.1110				
.950				.0540	-.0600	-.1020	
.953			.1480				

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.290		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.965	.1330					
MACH (2) = 2.000 BETAT (4) = -.180		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.000	.0640	.0300	.2610	.6170	.5340	.5150
			.050			.2090	.2760	.3180	.3630
			.081		.1510				
			.086		.0920				
			.094	.0690					
			.150			.0690	.1010	.0900	.1400
			.177		.0590				
			.229	.0800					
			.246		.0440				
			.250			-.0170	-.0060	.0300	.0340
			.362	.0600					
			.400			-.0890	-.0920		-.0320
			.402		-.0670				
			.497	.0110					
			.550			-.1290	-.1360		
			.565		-.1010				
			.600						-.1390
			.650					-.1430	
			.700	-.0420			-.1460		
			.725			-.1360			
			.750					-.1490	-.1710
			.760		-.0210				
			.775			-.0660	-.1450		
			.808		.0120				
			.834	.0700					
			.850			.0040	-.1250	-.1260	
			.857		.0490				
			.865	.0380					
			.900	.0620		.0280			-.1320
			.905		.0800				
			.950			.0540	-.0650	-.0910	
			.953		.0950				
			.965	.0720					
MACH (2) = 2.000 BETAT (5) = 3.930		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.100	.0050	.0040	.1940	.4850	.4320	.3980
			.050			.1710	.2380	.2840	.3150
			.081		.1310				
			.086		.0590				
			.094	.0120					

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0550	.0770	.0760	.1140
.177			.0610				
.229	.0510						
.246		.0420					
.250				-.0120	-.0180	.0180	.0220
.362	.0700						
.400				-.0910	-.0930		-.0370
.402			-.0730				
.497	-.0010						
.550				-.1320	-.1340		
.565			-.1100				
.600							-.1380
.650						-.1400	
.700	-.0620				-.1450		
.725				-.1380			
.750						-.1460	-.1710
.760			-.0330				
.775				-.0670	-.1460		
.808			.0020				
.834	.0470						
.850				-.0040	-.1270	-.1220	
.857			.0320				
.865	.0110						
.900	.0290			.0220			-.1310
.905			.0530				
.950				.0550	-.0520	-.0880	
.953			.0590				
.965	.0380						

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0280	-.0180	.1680	.4160	.3740	.3350	.3470
.050				.1520	.2130	.2490	.2840
.081			.1180				
.086		.0600					
.094	-.0020						
.150				.0470	.0630	.0570	.1080
.177			.0640				
.229	.0580						
.246		.0340					
.250				-.0120	-.0260	.0050	.0210
.362	.0710						
.400				-.0920	-.0960		-.0420
.402			-.0680				
.497	-.0030						

AMES 97-707 IA9 O2A-4 S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1270	-.1290		
.565			-.1050				
.600							-.1410
.650						-.1380	
.700	-.0570				-.1420		
.725				-.1330			
.750						-.1450	-.1750
.760			-.0230				
.775				-.0570	-.1430		
.808			.0110				
.834	.0600						
.850				.0000	-.1230	-.1200	
.857			.0320				
.865	.0170						
.900	.0310			.0270			-.1360
.905			.0460				
.950				.0570	-.0130	-.0880	
.953			.0470				
.965	.0300						

MACH (2) = 2.000 BETAT (6) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0650	-.0280	.1570	.3660	.3220	.2750	.3810
.050				.1420	.1970	.2140	.3330
.081			.1170				
.086		.0520					
.094	-.0150						
.150				.0460	.0500	.0420	.1400
.177			.0660				
.229	.0610						
.246		.0290					
.250				-.0150	-.0320	.0230	.0540
.362	.0670						
.400				-.0940	-.0870		-.0150
.402			-.0690				
.497	-.0020						
.550				-.1200	-.1290		
.565			-.0940				
.600							-.1220
.650						-.1210	
.700	-.0550				-.1340		
.725				-.1290			
.750						-.1260	-.1570
.760			-.0030				
.775				-.0340	-.1230		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU11)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0250				
.834	.0760						
.850				.0100	-.1000	-.0970	
.857			.0360				
.865	.0210						
.900	.0310			.0340			-.1140
.905			.0420				
.950				.0610	.0500	-.0630	
.953			.0380				
.965	.0280						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU12) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0890	.1270	.4230	.8120	.7870	.7930	.7710
.050				.1630	.2720	.3230	.3980
.081			.1240				
.086		.1070					
.094	.1240						
.150				-.0230	.0210	.0260	.0670
.177			-.0450				
.229	.0760						
.246		-.0210					
.250				-.1540	-.1160	-.0770	-.0750
.362	.0150						
.400				-.2430	-.2360		-.1710
.402			-.1970				
.497	-.0450						
.550				-.2770	-.3020		
.565			-.2030				
.600							-.3020
.650						-.3210	
.700	-.1240				-.3150		
.725				-.1330			
.750						-.3300	-.3160
.760			-.0410				
.775				-.0600	-.3140		
.808			.0230				
.834	.1120						
.850				-.0290	-.2200	-.3000	
.857			.0770				
.865	.0670						
.900	.0950			.0040			-.2530
.905			.1170				
.950				.0520	-.0540	-.2510	
.953			.1460				
.965	.1210						

MACH (1) = 1.555 BETAT (2) = -6.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0600	.0920	.3510	.7590	.7130	.7360	.7010
.050				.1240	.2410	.2980	.3720
.081			.1100				
.086		.0770					
.094	.0880						

AMES 97-707 IA9 OGA + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0450	.0020	.0020	.0560
.177			-.0470				
.229	.0510						
.246		-.0310					
.250				-.1650	-.1340	-.0870	-.0830
.362	-.0030						
.400				-.2390	-.2440		-.1740
.402			-.1920				
.497	-.0500						
.550				-.2730	-.2930		
.565			-.2040				
.600							-.3070
.650						-.3220	
.700	-.1420				-.3080		
.725				-.1710			
.750						-.3310	-.3210
.760			-.0430				
.775				-.0650	-.3030		
.808			.0180				
.834	.0770						
.850				-.0290	-.2340	-.2970	
.857			.0510				
.865	.0380						
.900	.0640			.0010			-.2540
.905			.0770				
.950				.0410	-.0630	-.2440	
.953			.0990				
.965	.0810						

MACH (1) = 1.555 BETAT (3) = -4.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0020	.0570	.2940	.6550	.6480	.6750	.6390
.050				.1180	.2170	.2840	.3460
.081			.0880				
.086		.0490					
.094	.0400						
.150				-.0370	-.0070	-.0150	.0460
.177			-.0360				
.229	.0270						
.246		-.0290					
.250				-.1300	-.1270	-.0900	-.0920
.362	-.0020						
.400				-.2220	-.2270		-.1790
.402			-.1920				
.497	-.0580						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2610	-.2850		
.565			-.2060				
.600							-.3110
.650						-.3130	
.700	-.1490				-.2960		
.725				-.1450			
.750						-.3200	-.3270
.760			-.0470				
.775				-.0630	-.2940		
.808			.0070				
.834	.0530						
.850				-.0300	-.2180	-.2870	
.857			.0390				
.865	.0050						
.900	.0300			-.0020			-.2650
.905			.0550				
.950				.0420	-.0600	-.2300	
.953			.0710				
.965	.0540						

MACH (1) = 1.555 BETAT (4) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.030	-.0980	.0010	.2050	.5300	.5120	.5310	.5170
.050				.1190	.2080	.2410	.2870
.061			.0710				
.086		.0290					
.094	-.0260						
.150				-.0380	-.0160	-.0340	.0170
.177			-.0330				
.229	.0190						
.246		-.0380					
.250				-.1220	-.1310	-.0920	-.1050
.362	-.0140						
.400				-.2180	-.2170		-.1900
.402			-.1960				
.497	-.0910						
.550				-.2600	-.2760		
.565			-.2070				
.600							-.3160
.650						-.3110	
.700	-.1200				-.2930		
.725				-.1280			
.750						-.3110	-.3320
.760			-.0460				
.775				-.0590	-.2890		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0110				
.834	.0120						
.850				-.0060	-.1550	-.2770	
.857			.0020				
.865	-.0390						
.900	-.0120			.0140			-.2790
.905			.0120				
.950				.0380	-.0390	-.2240	
.953			.0220				
.965	.0030						

MACH (1) = 1.555 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1480	-.0540	.1390	.4330	.4130	.5440	.5060
.050				.0840	.1640	.2700	.2840
.081			.0520				
.086		-.0030					
.094	-.0610						
.150				-.0460	.0120	-.0140	.0250
.177			-.0240				
.229	-.0100						
.246		-.0530					
.250				-.1310	-.0740	-.0590	-.0890
.362	-.0270						
.400				-.2100	-.1750		-.1650
.402			-.1850				
.497	-.0940						
.550				-.2010	-.2290		
.565		-.1930					
.600							-.2950
.650						-.2710	
.700	-.1050				-.2480		
.725				-.0330			
.750						-.2750	-.3120
.760		-.0030					
.775				.0130	-.2290		
.808			.0210				
.834	.0040						
.850				.0410	-.0490	-.2360	
.857			.0250				
.865	-.0470						
.900	.0240			.0400			-.2360
.905			.0290				
.950				.0490	.0640	-.0800	
.953			.0390				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	.0290						
MACH (1) = 1.555 BETAT (6) = 5.980		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1870	-.0750	.1210	.4770	.4890	.4650	.4240
		.050				.1320	.2130	.2120	.2330
		.081			.1170				
		.086		-.0160					
		.094	-.0770						
		.150				.0080	.0020	-.0410	-.0070
		.177			.0160				
		.229	-.0160						
		.246		-.0620					
		.250				-.0750	-.1010	-.0900	-.1160
		.362	-.0320						
		.400				-.1670	-.1790		-.1830
		.402			-.1240				
		.497	-.0780						
		.550				-.1730	-.2330		
		.565		-.1060					
		.600							-.3040
		.650						-.2750	
		.700	-.0160				-.2290		
		.725				-.0100			
		.750						-.2780	-.3100
		.760			.0060				
		.775				.0140	-.0900		
		.808			.0080				
		.834	.0590						
		.850				.0290	-.0040	-.1750	
		.857			.0050				
		.865	-.0230						
		.900	-.0030			.0180			-.2280
		.905			.0070				
		.950				.0250	.0750	-.0190	
		.953			.0150				
		.965	.0020						
MACH (1) = 1.555 BETAT (7) = 8.020		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.2110	.0120	.1940	.4380	.3940	.3630	.3840
		.050				.1030	.1610	.2060	.2290
		.081			.0930				
		.086		.0380					
		.094	.0020						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0110	-.0250	-.0270	-.0040
.177			.0280				
.229	.0450						
.246		-.0150					
.250				-.0890	-.1160	-.0630	-.1080
.362	.0190						
.400				-.1730	-.1710		-.1690
.402			-.1420				
.497	-.0370						
.550				-.2010	-.2150		
.565			-.1570				
.600							-.2920
.650						-.2610	
.700	-.0690				-.2270		
.725				-.0260			
.750						-.2650	-.3160
.760			-.0250				
.775				.0160	-.0830		
.808			-.0240				
.834	.0250						
.850				.0240	-.0120	-.1770	
.857			-.0210				
.865	-.0580						
.900	-.0450			.0100			-.2340
.905			-.0140				
.950				.0090	.0670	-.0140	
.953			-.0110				
.965	-.0900						

MACH (2) = 2.000 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0590	.1730	.4720	.9470	.8980	.9010	.9180
.050				.2550	.3360	.3780	.4580
.081			.1480				
.086		.1570					
.094	.1130						
.150				.0530	.1210	.1100	.1870
.177			.0090				
.229	.1210						
.246		.0580					
.250				-.0630	-.0150	.0240	.0500
.362	.0820						
.400				-.1490	-.1190		-.0360
.402			-.0980				
.497	.0180						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1740	-.1800		
.565			-.1350				
.600							-.1500
.650						-.1690	
.700	-.0540				-.1940		
.725				-.1870			
.750						-.1840	-.1760
.760			-.0530				
.775				-.1410	-.1980		
.808			-.0270				
.834	.0590						
.850				-.0180	-.1840	-.1740	
.857			-.0110				
.865	.0680						
.900	.1020			.0070			-.1470
.905			.0280				
.950				.0160	-.1510	-.1430	
.953			.0950				
.965	.1360						

MACH (2) = 2.000 BETAT (-2) = -6.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0220	.1390	.4030	.8870	.8100	.8200	.8500
.050				.2190	.2900	.3400	.4220
.081			.1340				
.086		.1270					
.094	.0800						
.150				.0180	.0810	.0900	.1630
.177			.0080				
.229	.0890						
.246		.0320					
.250				-.0830	-.0390	.0080	.0290
.362	.0570						
.400				-.1600	-.1310		-.0560
.402			-.1080				
.497	-.0060						
.550				-.1830	-.1860		
.565			-.1440				
.600							-.1630
.650						-.1800	
.700	-.0690				-.2020		
.725				-.1890			
.750						-.1940	-.1890
.760			-.0620				
.775				-.1510	-.2040		

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0270				
.834	.0290						
.850				-.0340	-.1900	-.1830	
.857			-.0090				
.865	.0430						
.900	.0770			-.0050			-.1640
.905			.0270				
.950				.0060	-.1510	-.1510	
.953			.0720				
.965	.1150						

MACH (2) = 2.000 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0040	.0930	.3600	.7580	.7290	.7400	.7680
.050				.1580	.2510	.3050	.3760
.081			.1150				
.086		.0940					
.094	.0520						
.150				-.0010	.0560	.0720	.1350
.177			-.0080				
.229	.0590						
.246		.0200					
.250				-.0880	-.0540	-.0130	.0100
.362	.0450						
.400				-.1500	-.1400		-.0730
.402			-.1170				
.497	-.0140						
.550				-.1720	-.1920		
.565			-.1510				
.600							-.1720
.650						-.1880	
.700	-.0930				-.2040		
.725				-.1920			
.750						-.1980	-.1990
.760			-.0730				
.775				-.1310	-.2020		
.808			-.0530				
.834	.0240						
.850				-.0450	-.1820	-.1900	
.857			-.0350				
.865	.0230						
.900	.0470			-.0150			-.1760
.905			.0070				
.950				.0020	-.1410	-.1580	
.953			.0590				

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.240	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
		.965	.0860					
MACH (2) = 2.000 BETAT (4) = -1.170	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0300	.0090	.2540	.6170	.5210	.5490	.5980
	.050				.1270	.1670	.2150	.2820
	.081			.0690				
	.086		.0320					
	.094	.0110						
	.150				-.0250	.0140	.0180	.0740
	.177			-.0250				
	.229	.0110						
	.246		-.0210					
	.250				-.0970	-.0760	-.0450	-.0310
	.362	-.0030						
	.400				-.1520	-.1450		-.1000
	.402			-.1150				
	.497	-.0380						
	.550				-.1730	-.1860		
	.565			-.1440				
	.600							-.1900
	.650						-.1930	
	.700	-.0890				-.1940		
	.725				-.1870			
	.750						-.2030	-.2130
	.760			-.0790				
	.775				-.1220	-.1900		
	.808			-.0570				
	.834	.0010						
	.850				-.0640	-.1700	-.1850	
	.857			-.0330				
	.865	-.0150						
	.900	.0070			-.0410			-.1850
	.905			.0020				
	.950				-.0230	-.1150	-.1520	
	.953			.0330				
	.965	.0270						
MACH (2) = 2.000 BETAT (5) = 3.920	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
	.000	-.0710	-.0580	.1590	.4810	.4370	.4050	.4390
	.050				.0860	.1550	.1870	.2280
	.081			.0500				
	.086		-.0060					
	.094	-.0480						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.920

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0210	.0060	.0130	.0420
.177			-.0130				
.229	-.0200						
.246		-.0140					
.250				-.0830	-.0760	-.0450	-.0450
.362	.0060						
.400				-.1410	-.1470		-.1010
.402			-.1150				
.497	-.0450						
.550				-.1740	-.1840		
.565			-.1450				
.600							-.1830
.650						-.1910	
.700	-.1010				-.1930		
.725				-.1810			
.750						-.1930	-.2080
.760			-.0870				
.775				-.1280	-.1900		
.808			-.0610				
.834	-.0190						
.850				-.0710	-.1710	-.1690	
.857			-.0360				
.865	-.0390						
.900	-.0210			-.0480			-.1790
.905			-.0100				
.950				-.0270	-.1210	-.1390	
.953			.0040				
.965	-.0060						

MACH (2) = 2.000 BETAT (6) = 5.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0830	-.0790	.1080	.3990	.3780	.3810	.3940
.050				.0600	.1340	.1830	.2260
.081			.0370				
.086		-.0070					
.094	-.0630						
.150				-.0270	.0040	.0060	.0420
.177			-.0080				
.229	-.0160						
.246		-.0190					
.250				-.0790	-.0790	-.0490	-.0440
.362	.0020						
.400				-.1380	-.1440		-.0960
.402			-.1110				
.497	-.0480						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1710	-.1760		
.565			-.1420				
.600							-.1830
.650						-.1800	
.700	-.0980				-.1820		
.725				-.1700			
.750						-.1850	-.2120
.760			-.0820				
.775				-.1140	-.1790		
.808			-.0520				
.834	-.0210						
.850				-.0600	-.1620	-.1610	
.857			-.0300				
.865	-.0350						
.900	-.0200			-.0380			-.1750
.905			-.0120				
.950				-.0120	-.0880	-.1340	
.953				-.0030			
.965	-.0130						

MACH (2) = 2.000 BETAT (7) = 8.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1030	-.1020	.0860	.3430	.3120	.4520	.5030
.050				.0510	.1120	.2570	.2930
.081			.0400				
.086		-.0010					
.094	-.0750						
.150				-.0280	-.0130	.0480	.0950
.177			-.0040				
.229	-.0110						
.246		-.0230					
.250				-.0770	-.0860	-.0130	-.0030
.362	.0020						
.400				-.1410	-.1380		-.0650
.402			-.1130				
.497	-.0510						
.550				-.1620	-.1420		
.565			-.1340				
.600							-.1620
.650						-.1530	
.700	-.0970				-.1540		
.725				-.1660			
.750						-.1600	-.1930
.760			-.0660				
.775				-.0890	-.1530		

AMES 97-757 IA9 O2A + S3 + T9 UPPER WING

(RBOU12)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.010

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.0360				
.834	-.0110						
.850				-.0290	-.1330	-.1410	
.857			-.0210				
.865	-.0290						
.900	-.0180			.0000			-.1530
.905			-.0060				
.950				.0270	-.0220	-.1080	
.953			-.0030				
.965	-.0150						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU13) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0540	.1100	.4380	.8650	.8210	.8530	.8020
.050				.0830	.1420	.1640	.2520
.081			.0190				
.086		.0730					
.094	.0710						
.150				-.1270	-.0730	-.0860	-.0240
.177			-.1480				
.229	.0340						
.246		-.0850					
.250				-.2400	-.1970	-.1660	-.1620
.362	-.0320						
.400				-.3280	-.3030		-.2420
.402			-.2600				
.497	-.1010						
.550				-.3440	-.3670		
.565			-.2660				
.600							-.3470
.650						-.3760	
.700	-.1830				-.3880		
.725				-.3120			
.750						-.3820	-.3520
.760			-.1330				
.775				-.1340	-.3930		
.808			-.1010				
.834	.0260						
.850				-.1020	-.3720	-.3600	
.857			-.0420				
.865	.0240						
.900	.0550			-.0970			-.2620
.905			.0260				
.950				-.0780	-.1800	-.3050	
.953			.0870				
.965	.0870						

MACH (1) = 1.555 BETAT (2) = -6.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0240	.0740	.3860	.8130	.7740	.8030	.7570
.050				.0670	.1280	.1550	.2300
.081			.0120				
.086		.0300					
.094	.0340						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1085

AMES 97-707 1A9 OEA + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1)	BETAT (2)	Y/BW	.299	.364	.427	.534	.673	.780	.887
1.555	-6.280	X/CW							
		.150				-.1340	-.0810	-.0990	-.0340
		.177			-.1530				
		.229	.0020						
		.246		-.0980					
		.250				-.2450	-.2050	-.1740	-.1700
		.362	-.0620						
		.400				-.3230	-.3080		-.2490
		.402			-.2590				
		.497	-.1030						
		.550				-.3350	-.3660		
		.565			-.2650				
		.600							-.3560
		.650						-.3790	
		.700	-.1930				-.3870		
		.725				-.3060			
		.750						-.3860	-.3540
		.760			-.1350				
		.775				-.1390	-.3890		
		.800			-.0990				
		.834	.0030						
		.850				-.1060	-.3670	-.3640	
		.857			-.0460				
		.865	.0060						
		.900	.0330			-.0930			-.2780
		.905			.0050				
		.950				-.0710	-.1770	-.3160	
		.953			.0540				
		.965	.0480						

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0400	.0240	.3480	.7430	.7220	.7560	.7070
.050				.0410	.1050	.1370	.2070
.081			-.0150				
.086		-.0020					
.094	-.0010						
.150				-.1420	-.0940	-.1040	-.0460
.177			-.1510				
.229	-.0310						
.246		-.0960					
.250				-.2420	-.2120	-.1820	-.1770
.362	-.0580						
.400				-.2990	-.3070		-.2550
.402			-.2530				
.497	-.1050						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.3190	-.3630		
.565			-.2630				
.600							-.3620
.650						-.3780	
.700	-.1980				-.3760		
.725				-.2950			
.750						-.3840	-.3650
.760			-.1370				
.775				-.1400	-.3650		
.808			-.0960				
.834	-.0200						
.850				-.1090	-.3400	-.3680	
.857			-.0440				
.865	-.0320						
.900	-.0090			-.0910			-.2640
.905			-.0030				
.950				-.0640	-.1480	-.3180	
.953				.0340			
.965	.0180						

MACH (1) = 1.555 BETAT (4) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1560	-.0290	.2320	.5980	.6340	.6570	.6010
.050				-.0080	.0450	.0820	.1460
.081			-.0250				
.086		-.0150					
.094	-.0700						
.150				-.1450	-.1200	-.1400	-.0850
.177			-.1260				
.229	-.0360						
.246		-.0970					
.250				-.2220	-.2250	-.2070	-.2020
.362	-.0630						
.400				-.2780	-.3060		-.2790
.402			-.2470				
.497	-.1270						
.550				-.3120	-.3490		
.565			-.2560				
.600							-.3780
.550						-.3810	
.700	-.1850				-.3600		
.725				-.2030			
.750						-.3890	-.3790
.760			-.1190				
.775				-.1310	-.3530		

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0730				
.834	-.0430						
.850				-.1000	-.3080	-.3640	
.857			-.0430				
.865	-.0710						
.900	-.0450			-.0740			-.2980
.905			-.0280				
.950				-.0390	-.1210	-.3070	
.953			-.0150				
.965	-.0250						

MACH (1) = 1.555 BETAT (5) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1990	-.1650	.1830	.5830	.6540	.6390	.5800
.050				-.0350	.0630	.0690	.1330
.081			-.0420				
.086		-.0340					
.094	-.1150						
.150				-.1420	-.0890	-.1380	-.0870
.177			-.1050				
.229	-.0470						
.246		-.0890					
.250				-.2120	-.1910	-.1950	-.2030
.362	-.0640						
.400				-.2300	-.2700		-.2720
.402			-.2280				
.497	-.1190						
.550				-.2600	-.3150		
.565		-.2020					
.600							-.3580
.650						-.3550	
.700	-.1450				-.3160		
.725				-.1080			
.750						-.3560	-.3580
.760			-.0550				
.775				-.0600	-.3060		
.808			-.0230				
.834	.0080						
.850				-.0210	-.1770	-.3250	
.857			-.0060				
.865	-.0300						
.900	.0010			-.0040			-.2650
.905			.0020				
.950				.0150	-.0140	-.2410	
.953			.0110				

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW	.965	.0010					
MACH (1) = 1.555 BETAT (6) = 5.990	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW	.000	-.2350	-.1860	.2610	.5830	.5130	.5080
		.050			-.0160	.0080	.0230	.0570
		.081		.0210				
		.086	-.0330					
		.094	-.1350					
		.150			-.1040	-.1230	-.1600	-.1250
		.177		-.0660				
		.229	-.0440					
		.246	-.0280					
		.250			-.1790	-.2120	-.2110	-.2270
		.362	-.0710					
		.400			-.2090	-.2770		-.2850
		.402		-.1630				
		.497	-.0200					
		.550			-.2320	-.2920		
		.565		-.1690				
		.600						-.3700
		.650					-.3530	
		.700	-.0680			-.2950		
		.725			-.0870			
		.750					-.3410	-.3550
		.760		-.0490				
		.775			-.0550	-.2640		
		.808		-.0400				
		.834	-.0090					
		.850			-.0230	-.1040	-.2830	
		.857		-.0320				
		.865	-.0570					
		.900	-.0450		-.0210			-.3000
		.905		-.0310				
		.950			-.0120	-.0070	-.1490	
		.953		-.0260				
		.965	-.0390					
MACH (1) = 1.555 BETAT (7) = 8.030	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW	.000	-.2760	-.0970	.2090	.5040	.4050	.3980
		.050			-.0510	-.0310	-.0070	.0750
		.081		.0060				
		.086		.0320				
		.094	-.0210					

AMES S7-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1210	-.1450	-.1550	-.1210
.177			-.0540				
.229	.0240						
.246		-.0320					
.250				-.1780	-.2230	-.1940	-.2210
.362	-.0140						
.400				-.2380	-.2690		-.2750
.402			-.1890				
.497	-.0500						
.550				-.2620	-.2850		
.565			-.2140				
.600							-.3600
.650						-.3320	
.700	-.1420				-.2910		
.725				-.1230			
.750						-.3270	-.3460
.760			-.0870				
.775				-.0700	-.2580		
.808			-.0710				
.834	-.0400						
.850				-.0340	-.1160	-.2870	
.857			-.0650				
.865	-.0930						
.900	-.0830			-.0310			-.3010
.905			-.0600				
.950				-.0210	-.0170	-.1540	
.953			-.0530				
.965	-.0840						

MACH (2) = 2.000 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0490	.1520	.4860	1.0060	.9170	.9310	.9260
.050				.1780	.2710	.2890	.3510
.081			.0780				
.086		.1070					
.094	.0870						
.150				-.0080	.0600	.0450	.1090
.177			-.0610				
.229	.0740						
.246		.0030					
.250				-.1130	-.0670	-.0290	-.0130
.362	.0460						
.400				-.1920	-.1580		-.0850
.402			-.1430				
.497	-.0190						

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2290	-.2100		
.565			-.1710				
.600							-.1820
.650						-.2000	
.700	-.0910				-.2260		
.725				-.2330			
.750						-.2140	-.1990
.760			-.1190				
.775				-.2230	-.2300		
.808			-.0840				
.834	-.0220						
.850				-.1170	-.2220	-.1990	
.857			-.0670				
.865	.0160						
.900	.0500			-.0580			-.1580
.905			-.0490				
.950				-.0290	-.1980	-.1780	
.953			-.0090				
.965	.1030						

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0150	.1080	.4280	.9360	.8390	.8480	.8580
.050				.1510	.2270	.2570	.3240
.081			.0510				
.086		.0770					
.094	.0330						
.150				-.0350	.0280	.0260	.0880
.177			-.0810				
.229	.0420						
.246		-.0230					
.250				-.1340	-.0860	-.0480	-.0300
.362	.0160						
.400				-.2130	-.1690		-.1040
.402			-.1620				
.497	-.0410						
.550				-.2370	-.2230		
.565			-.1880				
.600							-.1940
.650						-.2120	
.700	-.1110				-.2390		
.725				-.2390			
.750						-.2250	-.2140
.760			-.1350				
.775				-.2250	-.2430		

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0970				
.834	-.0430						
.850				-.1050	-.2340	-.2150	
.857			-.0790				
.865	-.0120						
.900	.0260			-.0590			-.2020
.905			-.0580				
.950				-.0470	-.2090	-.1910	
.953			-.0250				
.965	.0780						

MACH (2) = 2.000 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0170	.0630	.3580	.8610	.7630	.7800	.7860
.050				.0890	.1910	.2240	.2850
.081			.0070				
.086		.0470					
.094	-.0060						
.150				-.0740	.0020	.0050	.0620
.177			-.1040				
.229	.0100						
.246		-.0410					
.250				-.1610	-.1060	-.0670	-.0520
.362	-.0060						
.400				-.2240	-.1870		-.1190
.402			-.1700				
.497	-.0600						
.550				-.2400	-.2320		
.565			-.1910				
.600							-.2080
.650						-.2230	
.700	-.1350				-.2490		
.725				-.2350			
.750						-.2360	-.2290
.760			-.1340				
.775				-.2160	-.2530		
.808			-.1110				
.834	-.0450						
.850				-.1070	-.2450	-.2290	
.857			-.1030				
.865	-.0320						
.900	-.0060			-.0760			-.2050
.905			-.0770				
.950				-.0640	-.2200	-.2040	
.953			-.0390				

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0450						

MACH (2) = 2.000 BETAT (4) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0570	-.0190	.2250	.5610	.6070	.6420	.6480
.050				.0150	.1030	.1590	.2160
.081			-.0230				
.086		-.0160					
.094	-.0550						
.150				-.0980	-.0590	-.0400	.0180
.177			-.1060				
.229	-.0420						
.246		-.0750					
.250				-.1600	-.1430	-.1080	-.0840
.362	-.0520						
.400				-.1980	-.2020		-.1460
.402			-.1560				
.497	-.0760						
.550				-.2030	-.2390		
.565			-.1750				
.600							-.2230
.650						-.2340	
.700	-.1240				-.2450		
.725				-.2100			
.750						-.2460	-.2440
.760			-.1210				
.775				-.1480	-.2420		
.808			-.1080				
.834	-.0460						
.850				-.0960	-.2230	-.2390	
.857			-.0930				
.865	-.0570						
.900	-.0400			-.0770			-.2270
.905			-.0640				
.950				-.0670	-.1730	-.2190	
.953			-.0350				
.965	-.0110						

MACH (2) = 2.000 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1080	-.0920	.1270	.4630	.4150	.4390	.5390
.050				.0080	.0540	.0810	.1300
.081			-.0200				
.086		-.0600					
.094	-.1020						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0910	-.0650	-.0580	-.0280
.177			-.0770				
.229	-.0780						
.246		-.0600					
.250				-.1400	-.1360	-.1070	-.1080
.362	-.0440						
.400				-.1800	-.1870		-.1570
.402			-.1490				
.497	-.0760						
.550				-.2060	-.2180		
.565			-.1740				
.600							-.2230
.650						-.2220	
.700	-.1270				-.2260		
.725				-.2080			
.750						-.2310	-.2290
.760			-.1240				
.775				-.1450	-.2220		
.808			-.1070				
.834	-.0650						
.850				-.1070	-.2030	-.2160	
.857			-.0900				
.865	-.0720						
.900	-.0590			-.0890			-.2110
.905			-.0670				
.950				-.0750	-.1410	-.1850	
.953			-.0460				
.965	-.0380						

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1340	-.1310	.0890	.4200	.3900	.4140	.4230
.050				-.0090	.0580	.0820	.1100
.081			-.0340				
.086		-.0640					
.094	-.1090						
.150				-.0900	-.0600	-.0570	-.0330
.177			-.0740				
.229	-.0800						
.246		-.0640					
.250				-.1350	-.1320	-.1090	-.1070
.362	-.0470						
.400				-.1770	-.1880		-.1540
.402			-.1470				
.497	-.0820						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2010	-.2170		
.565			-.1690				
.600							-.2160
.650						-.2170	
.700	-.1290				-.2190		
.725				-.1910			
.750						-.2270	-.2250
.760			-.1180				
.775				-.1370	-.2120		
.808			-.0990				
.834	-.0650						
.850				-.0980	-.1970	-.2130	
.857			-.0810				
.865	-.0690						
.900	-.0570			-.0780			-.2000
.905			-.0570				
.950				-.0640	-.1180	-.1810	
.953			-.0410				
.965	-.0380						

MACH (2) = 2.000 BETAT (7) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1620	-.1600	.0370	.3760	.3770	.5360	.5010
.050				-.0250	.0410	.1340	.1580
.081			-.0230				
.086		-.0650					
.094	-.1220						
.150				-.0930	-.0480	-.0280	-.0360
.177			-.0690				
.229	-.0780						
.246		-.0690					
.250				-.1380	-.1000	-.0850	-.0870
.362	-.0530						
.400				-.1830	-.1650		-.1380
.402			-.1520				
.497	-.0930						
.550				-.1960	-.1900		
.565			-.1640				
.600							-.2120
.650						-.2080	
.700	-.1340				-.1980		
.725				-.1760			
.750						-.2150	-.2210
.760			-.1070				
.775				-.1110	-.1950		

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU13)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0740				
.834	-.0580						
.850				-.0590	-.1820	-.1990	
.857			-.0440				
.865	-.0680						
.900	-.0530			-.0390			-.1990
.905			-.0180				
.950				-.0260	-.1180	-.1690	
.953			-.0040				
.965	-.0340						

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU14) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0350	.0430	.4530	.9140	.8880	.8830	.7450
.050				-.0460	.0230	.0020	.0550
.081			-.0710				
.086		.0330					
.094	.0440						
.150				-.2110	-.1560	-.1900	-.1560
.177			-.2420				
.229	-.0070						
.246		-.1340					
.250				-.3180	-.2710	-.2490	-.2590
.362	-.0610						
.400				-.3990	-.3640		-.3070
.402			-.3200				
.497	-.1280						
.550				-.4220	-.4210		
.565			-.3170				
.600							-.3890
.650						-.4220	
.700	-.2380				-.4360		
.725				-.4150			
.750						-.4170	-.3970
.760			-.1920				
.775				-.3490	-.4250		
.808			-.1700				
.834	-.0500						
.850				-.3090	-.4110	-.4010	
.857			-.1500				
.865	-.0110						
.900	.0210			-.1500			-.3470
.905			-.0960				
.950				-.0380	-.3050	-.3550	
.953			-.0260				
.965	.0530						

MACH (1) = 1.555 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0190	.0090	.4140	.8720	.8100	.8550	.7220
.050				-.0570	.0020	.0100	.0470
.081			-.0780				
.086		-.0120					
.094	-.0020						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2220	-.1700	-.1940	-.1640
.177			-.2570				
.229	-.0380						
.246		-.1470					
.250				-.3280	-.2790	-.2560	-.2630
.362	-.0970						
.400				-.4050	-.3680		-.3130
.402			-.3190				
.497	-.1390						
.550				-.4200	-.4240		
.565			-.3160				
.600							-.3950
.650						-.4270	
.700	-.2430				-.4430		
.725				-.4190			
.750						-.4250	-.3990
.760			-.1980				
.775				-.3300	-.4450		
.808			-.1830				
.834	-.0690						
.850				-.2310	-.4160	-.4090	
.857			-.1600				
.865	-.0310						
.900	.0030			-.1300			-.3510
.905			-.1090				
.950				-.0930	-.3170	-.3650	
.953			-.0420				
.965	.0290						

MACH (1) = 1.555 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0560	.3560	.8080	.7420	.7630	.6780
.050				-.0980	-.0440	-.0220	.0290
.081			-.1190				
.086		-.0440					
.094	-.0360						
.150				-.2420	-.1970	-.2150	-.1790
.177			-.2690				
.229	-.0850						
.246		-.1670					
.250				-.3390	-.2960	-.2700	-.2770
.362	-.1080						
.400				-.4070	-.3810		-.3260
.402			-.3150				
.497	-.1510						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.220

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.550					-.4130	-.4310		
.565				-.3190				
.600								-.4060
.650							-.4340	
.700	-.2490					-.4470		
.725				-.3980				
.750							-.4330	-.4110
.760			-.2100					
.775				-.2580	-.4490			
.808			-.1950					
.834	-.0810							
.850				-.1500	-.4200	-.4150		
.857			-.1620					
.865	-.0600							
.900	-.0290			-.1020				-.3630
.935			-.1070					
.950				-.0930	-.3210	-.3720		
.953			-.0440					
.965	-.0070							

MACH (1) = 1.555 BETAT (4) = -.120

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.000	-.1920	-.1530	.2340	.7000	.6490	.6690	.5950	
.050				-.1530	-.0970	-.0760	-.0110	
.081			-.1540					
.086		-.0750						
.094	-.0890							
.150				-.2620	-.2260	-.2480	-.2070	
.177			-.2490					
.229	-.0920							
.246		-.1640						
.250				-.3410	-.3170	-.2990	-.2980	
.362	-.1070			-.3820	-.3910		-.3440	
.400								
.402			-.3040					
.497	-.1530							
.550				-.3880	-.4370			
.565			-.3080					
.600							-.4190	
.650						-.4410		
.700	-.2420				-.4420			
.725				-.3100				
.750						-.4420	-.4240	
.760			-.2080					
.775				-.1090	-.4330			

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1750				
.834	-.0610						
.850				-.1570	-.3780	-.4230	
.857			-.1270				
.865	-.0910						
.900	-.0720			-.1440			-.3740
.905			-.0780				
.950				-.1300	-.2820	-.3890	
.953			-.0470				
.965	-.0540						

MACH (1) = 1.555 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2590	-.2660	.1490	.5810	.6420	.6640	.5620
.050				-.1830	-.1030	-.0850	-.0500
.081			-.1400				
.086		-.0950					
.094	-.1520						
.150				-.2690	-.2140	-.2400	-.2210
.177			-.2140				
.229	-.0980						
.246		-.1320					
.250				-.3090	-.2970	-.2890	-.3040
.362	-.0890						
.400				-.3280	-.3700		-.3460
.402			-.2820				
.497	-.1490						
.550				-.3270	-.4090		
.565			-.2500				
.600							-.4160
.650						-.4240	
.700	-.2130				-.4030		
.725				-.1870			
.750						-.4060	-.4180
.760			-.1480				
.775				-.1500	-.3860		
.808			-.1090				
.834	-.0370						
.850				-.1180	-.3280	-.4040	
.857			-.0690				
.865	-.0660						
.900	-.0410			-.0920			-.3670
.905			-.0430				
.950				-.0640	-.1250	-.3210	
.953			-.0220				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.965	-.0210					

MACH (1) = 1.555 BETAT (6) = 6.000

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3200	-.2520	.1350	.5890	.5590	.5500	.4700
.050				-.1960	-.1500	-.1490	-.1140
.081			-.1110				
.086		-.1740					
.094	-.1750						
.150				-.2450	-.2480	-.2830	-.2560
.177			-.1410				
.229	-.0860						
.246		-.0540					
.250				-.2900	-.3220	-.3190	-.3350
.362	-.0560						
.400				-.2970	-.3850		-.3700
.402			-.2170				
.497	-.0530						
.550				-.2970	-.3960		
.565			-.2400				
.600							-.4330
.650						-.4350	
.700	-.1470				-.3820		
.725				-.1840			
.750						-.4200	-.4270
.760			-.1260				
.775				-.1490	-.3400		
.808			-.1010				
.834	-.0550						
.850				-.1070	-.1710	-.4080	
.857			-.0870				
.865	-.0980						
.900	-.0830			-.0810			-.3710
.905			-.0770				
.950				-.0590	-.1000	-.3230	
.953			-.0680				
.965	-.0680						

MACH (1) = 1.555 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3470	-.1870	.0690	.4730	.4500	.4480	.4310
.050				-.2020	-.1860	-.1700	-.1210
.081			-.0950				
.086		-.1140					
.094	-.0990						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2610	-.2700	-.2640	-.2630
.177			-.1310				
.229	-.0210						
.246		-.0560					
.250				-.2810	-.3380	-.3150	-.3390
.362	-.0370						
.400				-.3050	-.3760		-.3720
.402			-.2390				
.497	-.0960						
.550				-.3120	-.3710		
.565			-.2740				
.600							-.4360
.650						-.4260	
.700	-.2150				-.3660		
.725				-.2160			
.750						-.4150	-.4260
.760			-.1560				
.775				-.1680	-.3320		
.808			-.1350				
.834	-.0840						
.850				-.1140	-.1930	-.3940	
.857			-.1230				
.865	-.1320						
.900	-.1180			-.0900			-.3970
.905			-.1070				
.950				-.0680	-.1430	-.2930	
.953			-.0880				
.965	-.1090						

MACH (2) = 2.000 BETAT (1) = -8.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0450	.1040	.4750	1.0320	.9440	.9460	.8980
.050				.0970	.1570	.1960	.2460
.081			.0060				
.086		.0690					
.094	.0810						
.150				-.0690	-.0200	-.0230	.0230
.177			-.1340				
.229	.0550						
.246		-.0600					
.250				-.1630	-.1290	-.0890	-.0830
.362	.0120						
.400				-.2310	-.2010		-.1400
.402			-.1930				
.497	-.0460						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2630	-.2410		
.565			-.2090				
.600							-.2170
.650						-.2320	
.700	-.1240				-.2550		
.725				-.2670			
.750						-.2420	-.2250
.760			-.1860				
.775				-.2570	-.2590		
.808			-.1520				
.834	-.1010						
.850				-.2160	-.2500	-.2340	
.857			-.1140				
.865	-.0470						
.900	-.0140			-.1420			-.1820
.905			-.0910				
.950				-.1110	-.2270	-.2150	
.953			-.0650				
.965	.0650						

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0400	.0510	.4180	.9580	.8680	.8820	.8560
.050				.0580	.1230	.1630	.2240
.081			-.0190				
.086		.0360					
.094	.0400						
.150				-.0900	-.0370	-.0400	.0690
.177			-.1390				
.229	.0180						
.246		-.0700					
.250				-.1780	-.1330	-.0990	-.0920
.362	-.0120						
.400				-.2440	-.2060		-.1470
.402			-.2070				
.497	-.0690						
.550				-.2730	-.2590		
.565			-.2200				
.600							-.2220
.650						-.2390	
.700	-.1470				-.2640		
.725				-.2700			
.750						-.2520	-.2430
.760			-.2000				
.775				-.2620	-.2680		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1570				
.834	-.1260						
.850				-.2290	-.2600	-.2410	
.857			-.1330				
.865	-.0720						
.900	-.0370			-.1590			-.2060
.905			-.1060				
.950				-.1270	-.2380	-.2220	
.953			-.0980				
.965	.0450						

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0260	-.0080	.3520	.8800	.7940	.8190	.7900
.050				.0230	.0950	.1340	.1910
.081			-.0380				
.086		.0050					
.094	.0140						
.150				-.1160	-.0560	-.0560	-.0150
.177			-.1560				
.229	-.0090						
.246		-.0860					
.250				-.1940	-.1510	-.1160	-.1090
.362	-.0330						
.400				-.2550	-.2190		-.1630
.402			-.2080				
.497	-.0890						
.550				-.2800	-.2590		
.565			-.2220				
.600							-.2330
.650						-.2480	
.700	-.1680				-.2720		
.725				-.2790			
.750						-.2620	-.2470
.760			-.1880				
.775				-.2660	-.2760		
.808			-.1640				
.834	-.1180						
.850				-.2110	-.2680	-.2500	
.857			-.1580				
.865	-.0730						
.900	-.0440			-.1710			-.2220
.905			-.1470				
.950				-.1530	-.2460	-.2350	
.953			-.1270				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0200						

MACH (2) = 2.000 BETAT (4) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0970	-.0990	.2160	.7400	.6660	.6920	.6690
.050				-.0370	.0360	.0730	.1240
.081			-.1080				
.086		-.0600					
.094	-.0530						
.150				-.1570	-.0960	-.0970	-.0570
.177			-.1980				
.229	-.0700						
.246		-.1290					
.250				-.2260	-.1820	-.1500	-.1410
.362	-.0900						
.400				-.2790	-.2400		-.1890
.402			-.2060				
.497	-.1120						
.550				-.2830	-.2760		
.565			-.2120				
.600							-.2500
.650						-.2620	
.700	-.1650				-.2860		
.725				-.2760			
.750						-.2750	-.2680
.760			-.1680				
.775				-.2380	-.2850		
.808			-.1580				
.834	-.0900						
.850				-.1820	-.2750	-.2660	
.857			-.1550				
.865	-.0840						
.900	-.0690			-.1560			-.2450
.905			-.1320				
.950				-.1240	-.2580	-.2580	
.953			-.1050				
.965	-.0350						

MACH (2) = 2.000 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1580	-.1660	.0880	.5630	.5380	.5830	.5670
.050				-.1080	-.0460	.0080	.0610
.081			-.1330				
.086		-.1080					
.094	-.1200						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.950

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150				-.1820	-.1360	-.1360	-.0970
.177			-.1670				
.229	-.1140						
.246		-.1140					
.250				-.2230	-.2030	-.1780	-.1710
.362	-.0830						
.400				-.2420	-.2460		-.2080
.402			-.1920				
.497	-.1090						
.550				-.2430	-.2740		
.565			-.2050				
.600							-.2590
.650						-.2670	
.700	-.1590				-.2760		
.725				-.2120			
.750						-.2760	-.2760
.760			-.1650				
.775				-.1710	-.2710		
.808			-.1570				
.834	-.0970						
.850				-.1480	-.2640	-.2650	
.857			-.1470				
.865	-.1030						
.900	-.0910			-.1300			-.2600
.905			-.1220				
.950				-.1180	-.1910	-.2540	
.953			-.0950				
.965	-.0630						

MACH (2) = 2.000 BETAT (6) = 5.990

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1740	-.1890	-.0030	.4860	.4790	.5450	.5180
.050				-.1300	-.0600	-.0200	.0310
.081			-.1300				
.086		-.1180					
.094	-.1380						
.150				-.1860	-.1500	-.1460	-.1120
.177			-.1400				
.229	-.1240						
.246		-.1050					
.250				-.2160	-.2100	-.1860	-.1800
.362	-.0810						
.400				-.2270	-.2480		-.2160
.402			-.1800				
.497	-.1070						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2380	-.2690		
.565			-.1960				
.600							-.2580
.650						-.2670	
.700	-.1570				-.2680		
.725				-.2030			
.750						-.2700	-.2750
.760			-.1620				
.775				-.1650	-.2610		
.808			-.1490				
.834	-.0950						
.850				-.1400	-.2400	-.2620	
.857			-.1330				
.865	-.0990						
.900	-.0860			-.1220			-.2110
.905			-.1060				
.950				-.1110	-.1490	-.2490	
.953			-.0810				
.965	-.0580						

MACH (2) = 2.000 BETAT (7) = 6.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1880	-.2100	-.0680	.3610	.5640	.5990	.5520
.050				-.1420	-.0230	.0080	.0420
.081			-.1130				
.086		-.1460					
.094	-.1530						
.150				-.1780	-.1200	-.1270	-.1010
.177			-.1300				
.229	-.1330						
.246		-.1000					
.250				-.2020	-.1870	-.1690	-.1670
.362	-.0900						
.400				-.2100	-.2340		-.2060
.402			-.1880				
.497	-.1150						
.550				-.2120	-.2530		
.565			-.1990				
.600							-.2580
.650						-.2580	
.700	-.1650				-.2540		
.725				-.2010			
.750						-.2670	-.2730
.760			-.1310				
.775				-.1380	-.2470		

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1107

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOJ14)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAY (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1030				
.834	-.0850						
.850				-.1060	-.2290	-.2560	
.857			-.0810				
.865	-.0740						
.900	-.0520			-.0860			-.2540
.905			-.0570				
.950				-.0750	-.1460	-.2390	
.953			-.0400				
.965	-.0170						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU15) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0270	.0200	.4340	.9450	.8410	.8220	.6860
.050				-.1050	-.1080	-.1000	-.0560
.081			-.1200				
.086		-.0010					
.094	.0430						
.150				-.2430	-.2130	-.2730	-.2300
.177			-.2890				
.229	-.0170						
.246		-.1600					
.255				-.3450	-.3140	-.3090	-.3140
.362	-.0780						
.400				-.4250	-.3920		-.3550
.402			-.3370				
.497	-.1360						
.550				-.4340	-.4420		
.565			-.3300				
.600							-.4200
.650						-.3940	
.700	-.2600				-.4210		
.725				-.4310			
.750						-.3990	-.4070
.760			-.2050				
.775				-.4130	-.4010		
.808			-.1730				
.834	-.0970						
.850				-.3550	-.3720	-.3970	
.857			-.1840				
.865	-.0420						
.900	-.0020			-.3020			-.3840
.905			-.1420				
.950				-.2470	-.3070	-.3490	
.953			-.0800				
.965	.0380						

MACH (1) = 1.555 BETAT (2) = -6.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0330	-.0320	.3970	.8690	.8130	.7730	.6370
.050				-.1220	-.1120	-.1150	-.0810
.081			-.1370				
.086		-.0400					
.094	-.0130						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150							
.177							
.229	-.0530						
.246		-.1810					
.250							
.362	-.1130						
.400							
.402							
.497	-.1610						
.550							
.565							
.600							
.650							
.700	-.2720						
.725							
.750							
.760							
.775							
.808							
.834	-.1060						
.850							
.857							
.865	-.0520						
.900	-.0200						
.905							
.950							
.953							
.965	.0110						

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1020	-.0880	.3390	.8080	.7810	.7370	.5770
.050							
.081							
.086							
.094	-.0380						
.150							
.177							
.229	-.0800						
.246		-.1900					
.250							
.362	-.1190						
.400							
.402							
.497	-.1650						

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4460	-.4350		
.565			-.3290				
.600							-.3990
.650						-.3920	
.700	-.2720				-.4350		
.725				-.4070			
.750						-.4040	-.4040
.760			-.2260				
.775				-.3580	-.4080		
.808			-.2080				
.834	-.0930						
.850				-.3150	-.3860	-.3910	
.857			-.1780				
.865	-.0590						
.900	-.0270			-.2610			-.4060
.905			-.1400				
.950				-.2030	-.3310	-.3520	
.953			-.0920				
.965	-.0040						

MACH (1) = 1.555 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2040	-.2130	.1780	.6930	.6450	.6770	.5130
.050				-.2250	-.1660	-.1390	-.1290
.081			-.2210				
.086		-.1040					
.094	-.0910						
.150				-.3150	-.2750	-.3010	-.2690
.177			-.3190				
.229	-.1090						
.246		-.1960					
.250				-.3870	-.3620	-.3420	-.3500
.362	-.1200						
.400				-.4260	-.4260		-.3890
.402			-.3260				
.497	-.1700						
.550				-.4360	-.4600		
.565			-.3280				
.600							-.4150
.650						-.4140	
.700	-.2720				-.4550		
.725				-.3650			
.750						-.4220	-.4180
.760			-.2430				
.775				-.2140	-.4380		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.2250				
.834	-.0710						
.850				-.1860	-.4130	-.4120	
.857			-.1760				
.865	-.0850						
.900	-.0680			-.1510			-.4170
.905			-.1160				
.950				-.1360	-.3170	-.3570	
.953			-.0790				
.965	-.0550						

MACH (1) = 1.555 BETAT (5) = 3.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3070	-.2680	.0620	.5720	.6330	.6370	.4980
.050				-.2700	-.1790	-.1580	-.1430
.081			-.2020				
.086		-.1560					
.094	-.1550						
.150				-.3200	-.2730	-.3080	-.2800
.177			-.2440				
.229	-.1220						
.246		-.1590					
.250				-.3440	-.3540	-.3460	-.3540
.362	-.0990			-.3630	-.4100		-.3900
.400							
.402			-.2720				
.497	-.1590						
.550				-.3450	-.4420		
.565			-.2810				
.600							-.4250
.650						-.4160	
.700	-.2480				-.4290		
.725				-.2060			
.750						-.4200	-.4210
.760			-.1760				
.775				-.1750	-.4060		
.808			-.1360				
.834	-.0330						
.850				-.1460	-.3380	-.4100	
.857			-.0980				
.865	-.0650						
.900	-.0490			-.1140			-.4130
.905			-.0710				
.950				-.0800	-.2750	-.3330	
.953			-.0530				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 3.970	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	-.0320						
MACH (1) = 1.555	BETAT (6) = 6.030	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3530	-.2760	.0520	.5350	.5390	.5390	.4180
		.050				-.2650	-.2340	-.2150	-.1860
		.081			-.1790				
		.086		-.2140					
		.094	-.1770						
		.150				-.3170	-.3220	-.3450	-.3120
		.177			-.1620				
		.229	-.1060						
		.246		-.1140					
		.250				-.3480	-.3820	-.3770	-.3810
		.362	-.0140						
		.400				-.3240	-.4290		-.4130
		.402			-.2470				
		.497	-.0760						
		.550				-.3190	-.4180		
		.565			-.2720				
		.600							-.4050
		.650						-.4120	
		.700	-.1910				-.4160		
		.725				-.2340			
		.750						-.4170	-.4220
		.760			-.1700				
		.775				-.1890	-.4030		
		.808			-.1470				
		.834	-.0760						
		.850				-.1370	-.3300	-.3920	
		.857			-.1300				
		.865	-.1200						
		.900	-.1040			-.1060			-.3690
		.905			-.1130				
		.950				-.0750	-.1770	-.3410	
		.953			-.0970				
		.965	-.0860						
MACH (1) = 1.555	BETAT (7) = 6.080	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3560	-.2210	.0100	.4020	.4260	.4790	.3800
		.050				-.2920	-.2700	-.2310	-.1980
		.081			-.1390				
		.086		-.1320					
		.094	-.1080						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150							
.177				-.3040	-.3380	-.3510	-.3190
.229	-.0290		-.1670				
.246		-.1270					
.250				-.3190	-.3860	-.3780	-.3860
.362	-.0370						
.400				-.3280	-.4160		-.4160
.402			-.2610				
.497	-.1120						
.550				-.3340	-.4170		
.565			-.2970				
.600							
.650							-.4620
.700	-.2410					-.4500	
.725				-.2510	-.3980		
.750							
.760			-.1900			-.4450	-.4510
.775				-.2040	-.3620		
.808			-.1650				
.834	-.1040						
.850				-.1580	-.2340	-.4360	
.857			-.1410				
.865	-.1490						
.900	-.1370			-.1260			-.4420
.905			-.1230				
.950				-.0980	-.1750	-.3700	
.953			-.1130				
.965	-.1220						

MACH (2) = 2.000 BETAT (1) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0220	.0280	.4360	.9970	.8910	.9050	.8620
.050				.0350	.0870	.1190	.1710
.081			-.0360				
.086		.0260					
.094	.0220						
.150				-.1130	-.0590	-.0710	-.0250
.177			-.1670				
.229	.0140						
.246		-.0900					
.250				-.2000	-.1560	-.1240	-.1190
.362	-.0270						
.400				-.2620	-.2230		-.1690
.402			-.2270				
.497	-.0730						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -6.260

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.2830	-.2620		
.565			-.2510				
.600							-.2330
.650						-.2500	
.700	-.1550				-.2740		
.725				-.2810			
.750						-.2630	-.2500
.760			-.2290				
.775				-.2700	-.2770		
.808			-.1880				
.834	-.1500						
.850				-.2420	-.2640	-.2550	
.857			-.1460				
.865	-.0890						
.900	-.0560			-.1960			-.2080
.905			-.1050				
.950				-.1600	-.2410	-.2380	
.953			-.0760				
.965	.0340						

MACH (2) = 2.000 BETAT (2) = -4.210

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0210	-.0300	.3670	.9050	.8280	.6400	.7980
.050				-.0060	.0610	.0920	.1410
.081			-.0660				
.086		.0000					
.094	-.0130						
.150				-.1450	-.0760	-.0860	-.0450
.177			-.1850				
.229	-.0140						
.246		-.1080					
.250				-.2120	-.1710	-.1390	-.1350
.362	-.0380						
.400				-.2650	-.2340		-.1820
.402			-.2240				
.497	-.0940						
.550				-.2900	-.2660		
.565			-.2290				
.600							-.2420
.650						-.2560	
.700	-.1760				-.2780		
.725				-.2890			
.750						-.2680	-.2580
.760			-.2080				
.775				-.2770	-.2810		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -4.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-0.1790				
.834	-0.1470						
.850				-0.2400	-0.2700	-0.2620	
.857			-0.1680				
.865	-0.0920						
.900	-0.0640			-0.2110			-0.2250
.905			-0.1560				
.950				-0.1940	-0.2530	-0.2490	
.953			-0.1330				
.965	0.0120						

MACH (2) = 2.000 BETAT (3) = -0.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-0.1270	-0.1030	.2240	.7590	.6950	.7170	.6730
.050				-0.0620	-0.0010	.0360	.0780
.081			-0.1260				
.086		-0.0740					
.094	-0.0720						
.150				-0.1760	-0.1210	-0.1210	-0.0870
.177			-0.2170				
.229	-0.0830						
.246		-0.1510					
.250				-0.2400	-0.2010	-0.1700	-0.1640
.362	-0.0970						
.400				-0.2870	-0.2560		-0.2050
.402			-0.2310				
.497	-0.1280						
.550				-0.3000	-0.2850		
.565			-0.2320				
.600							-0.2590
.650						-0.2710	
.700	-0.1820				-0.2920		
.725				-0.2930			
.750						-0.2840	-0.2770
.760			-0.2010				
.775				-0.2750	-0.2850		
.808			-0.1870				
.834	-0.1170						
.850				-0.2490	-0.2810	-0.2780	
.857			-0.1860				
.865	-0.0910						
.900	-0.0710			-0.2330			-0.2540
.905			-0.1680				
.950				-0.2060	-0.2650	-0.2660	
.953			-0.1380				

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -.130		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.965	-.0340					
MACH (2) = 2.000 BETAT (4) = 3.970		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.000	-.1730	-.1680	.0880	.5930	.5750	.5980
			.050			-.1340	-.0710	-.0250	.0160
			.081		-.1720				
			.086		-.1160				
			.094	-.1330					
			.150			-.2150	-.1660	-.1590	-.1220
			.177			-.2150			
			.229	-.1240					
			.246		-.1440				
			.250			-.2600	-.2280	-.2020	-.1900
			.362	-.0950					
			.400			-.2760	-.2740		-.2270
			.402			-.2090			
			.497	-.1220					
			.550			-.2710	-.2910		
			.565			-.2180			
			.600						-.2730
			.650					-.2780	
			.700	-.1740			-.2840		
			.725			-.2350			
			.750					-.2760	-.2880
			.760			-.1800			
			.775			-.1950	-.2810		
			.808			-.1750			
			.834	-.1080					
			.850			-.1700	-.2730	-.2780	
			.857			-.1700			
			.865	-.1100					
			.900	-.0200		-.1560			-.2680
			.905			-.1520			
			.950			-.1410	-.2440	-.2660	
			.953			-.1240			
			.965	-.0600					
MACH (2) = 2.000 BETAT (5) = 6.020		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW	.000	-.1890	-.2020	-.0060	.5130	.5150	.5630
			.050				-.1620	-.0990	-.0510
			.081			-.1930			-.0150
			.086		-.1340				
			.094	-.1500					

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 6.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150							
.177				-.2320	-.1830	-.1740	-.1440
.229	-.1360		-.1880				
.246		-.1290					
.250				-.2530	-.2400	-.2150	-.2070
.362	-.0950						
.400				-.2610	-.2720		-.2400
.402			-.1990				
.497	-.1220						
.550				-.2580	-.2910		
.565			-.2100				
.650							-.2760
.650						-.2740	
.700	-.1690				-.2840		
.725				-.2180			
.750						-.2740	-.2870
.760			-.1810				
.775				-.1890	-.2800		
.808			-.1760				
.834	-.1040						
.850				-.1670	-.2680	-.2750	
.857			-.1680				
.865	-.1110						
.900	-.1000			-.1510			-.2410
.905			-.1400				
.950				-.1380	-.2380	-.2530	
.953			-.1080				
.965	-.0660						

MACH (2) = 2.000 BETAT (6) = 8.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1960	-.2290	-.0920	.3540	.5800	.6090	.5450
.050				-.1890	-.0910	-.0480	-.0060
.081			-.1660				
.086		-.1740					
.094	-.1590						
.150				-.2080	-.1660	-.1670	-.1350
.177			-.1570				
.229	-.1460						
.246		-.1270					
.250				-.2250	-.2200	-.2010	-.1970
.362	-.1000						
.400				-.2310	-.2610		-.2290
.402			-.2000				
.497	-.1280						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU15)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.070
 Y/BW .299 .364 .427 .534 .673 .780 .887
 X/CW
 .550 .2300 -.2770
 .565 -.2040
 .600 -.2720
 .650 -.2750
 .700 -.1720 -.2780
 .725 -.2130
 .750 -.2730 -.2840
 .760 -.1560
 .775 -.1630 -.2720
 .808 -.1330
 .834 -.0870
 .850 -.1310 -.2530 -.2700
 .857 -.1090
 .865 -.0770
 .900 -.0480 -.1110 -.2580
 .905 -.0800
 .950 -.0970 -.1830 -.2620
 .953 -.0590
 .965 -.0250

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU16) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0150	-.0260	.4280	.9100	.8060	.7880	.5920
.050				-.1740	-.1780	-.1670	-.1550
.081			-.1470				
.086		-.0280					
.094	.0370						
.150				-.2880	-.2740	-.3260	-.2900
.177			-.3350				
.229	-.0270						
.246		-.1850					
.250				-.3740	-.3580	-.3540	-.3550
.362	-.0900						
.400				-.4460	-.4210		-.3880
.402			-.4090				
.497	-.1280						
.550				-.4490	-.4560		
.565		-.3430					
.600							-.4290
.650						-.4120	
.700	-.2830				-.4360		
.725				-.4390			
.750						-.4210	-.4270
.760		-.2380					
.775				-.4010	-.4120		
.808		-.1790					
.834	-.1370						
.850				-.3530	-.3890	-.4180	
.857		-.1530					
.865	-.0670						
.900	-.0360			-.2920			-.4140
.905		-.1360					
.950				-.2680	-.3370	-.3820	
.953			-.1010				
.965	.0040						

MACH (1) = 1.555 BETAT (2) = -6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0700	-.1010	.3900	.8670	.7720	.7420	.5590
.050				-.1800	-.1920	-.1810	-.1640
.081			-.1680				
.086		-.0570					
.094	-.0070						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2960	-.2850	-.3330	-.2990
.177			-.3390				
.229	-.0590						
.246		-.1990					
.250				-.3820	-.3670	-.3610	-.3640
.362	-.1090						
.400				-.4520	-.4260		-.3930
.402			-.3930				
.497	-.1560						
.550				-.4380	-.4350		
.565			-.3490				
.600							-.4100
.650						-.4040	
.700	-.2870				-.4220		
.725				-.4300			
.750						-.4140	-.4240
.760			-.2470				
.775				-.4090	-.4040		
.808			-.1980				
.834	-.1330						
.850				-.3630	-.3870	-.4030	
.857			-.2130				
.865	-.0670						
.900	-.0370			-.3220			-.4140
.905			-.1740				
.950				-.3040	-.3390	-.3710	
.953			-.1240				
.965	-.0010						

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1390	-.1730	.3080	.8150	.7350	.7080	.5180
.050				-.2100	-.2030	-.1980	-.1860
.181			-.2210				
.086		-.0810					
.094	-.0560						
.150				-.3210	-.2990	-.3460	-.3140
.177			-.3640				
.229	-.0890						
.246		-.2180					
.250				-.3960	-.3780	-.3740	-.3750
.362	-.1300						
.400				-.4590	-.4360		-.4040
.402			-.3770				
.497	-.1820						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4430	-.4440		
.565			-.3450				
.600							-.4080
.650						-.4070	
.700	-.2950				-.4240		
.725				-.4280			
.750						-.4140	-.4270
.760			-.2470				
.775				-.4020	-.4080		
.808			-.2180				
.834	-.1200						
.850				-.3590	-.3950	-.4040	
.857			-.2190				
.865	-.0760						
.900	-.0480			-.3280			-.4170
.905			-.1730				
.950				-.3090	-.3490	-.3780	
.953			-.1240				
.965	-.0170						

MACH (1) = 1.555 BETAT (4) = -.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2430	-.2760	.1300	.6750	.6460	.6180	.4320
.050				-.2740	-.2250	-.2260	-.2280
.081			-.2900				
.086		-.1350					
.094	-.1110						
.150				-.3600	-.3220	-.3570	-.3400
.177			-.3790				
.229	-.1190						
.246		-.2230					
.250				-.4220	-.3950	-.3870	-.3970
.362	-.1440						
.400				-.4500	-.4500		-.4130
.402			-.3340				
.497	-.1940						
.550				-.4570	-.4570		
.565			-.3380				
.600							-.4060
.650						-.4070	
.700	-.2950				-.4350		
.725				-.4390			
.750						-.4180	-.4330
.760			-.2550				
.775				-.4040	-.4230		

AMES 97-707 IA9-02A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

MACH (1) = 1.555 BETAT (5) = 4.000

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000							
.050							
.081							
.086							
.094							
.150							
.177							
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 4.000

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0420						

MACH (1) = 1.555 BETAT (6) = 6.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3550	-.2970	-.0230	.4930	.5320	.5200	.3720
.050				-.3230	-.2850	-.2690	-.2560
.081			-.2320				
.086		-.1590					
.094	-.1900						
.150							
.177			-.1820	-.3770	-.3610	-.3840	-.3630
.229	-.1270						
.246		-.1310					
.250				-.3890	-.4180	-.4090	-.4130
.362	-.0040						
.400				-.3440	-.4570		-.4270
.402			-.2690				
.497	-.0930						
.550				-.3280	-.4360		
.565		-.2930					
.600							
.650							-.4200
.700	-.2350					-.4300	
.725				-.4420			
.750				-.2640			
.760			-.2060			-.4360	-.4330
.775				-.2150	-.4280		
.808			-.1870				
.834	-.0730						
.850				-.1670	-.3810	-.4110	
.857			-.1670				
.865	-.1260						
.900	-.1130			-.1360			-.3940
.905			-.1460				
.950				-.1070	-.2970	-.3730	
.953			-.1250				
.965	-.0970						

MACH (1) = 1.555 BETAT (7) = 8.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3540	-.2360	-.0540	.3370	.4140	.4650	.3360
.050				-.3510	-.3190	-.2790	-.2660
.081			-.1660				
.086		-.1560					
.094	-.2390						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.3640	-.3760	-.3900	-.3700
.177			-.2100				
.229	-.0540						
.246		-.1600					
.250				-.3620	-.4250	-.4160	-.4230
.362	-.0460						
.400				-.3420	-.4590		-.4470
.402			-.2850				
.497	-.1340						
.550				-.3410	-.4590		
.565			-.3200				
.600							-.4470
.650						-.4550	
.700	-.2700				-.4500		
.725				-.2870			
.750						-.4600	-.4620
.760			-.2140				
.775				-.2430	-.4270		
.808			-.1870				
.834	-.1260						
.850				-.1980	-.3010	-.4510	
.857			-.1740				
.865	-.1640						
.900	-.1510			-.1660			-.4380
.905			-.1600				
.950				-.1340	-.2190	-.3990	
.953			-.1470				
.965	-.1150						

MACH (2) = 2.000 BETAT (1) = -8.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0850	.0700	.5020	1.1020	.9550	.9570	.8750
.050				.0390	.0790	.0630	.1300
.081			-.0280				
.086		.0480					
.094	.0520						
.150				-.1090	-.0650	-.0960	-.0520
.177			-.1680				
.229	.0430						
.246		-.0810					
.250				-.1990	-.1640	-.1420	-.1390
.362	-.0030						
.400				-.2660	-.2340		-.1840
.402			-.2380				
.497	-.0670						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2910	-.2690		
.565			-.2650				
.600							
.650							-.2410
.700	-.1470				-.2790	-.2620	
.725				-.2860			
.750							
.760			-.2610			-.2680	-.2520
.775				-.2850	-.2700		
.808			-.2200				
.834	-.1560						
.850				-.2640	-.2620	-.2580	
.857			-.1530				
.865	-.0950						
.900	-.0610			-.2300			-.2160
.905			-.0980				
.950				-.1890	-.2490	-.2400	
.953			-.0520				
.965	.0340						

MACH (2) = 2.000 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0450	.0190	.4370	1.0180	.9020	.8990	.8330
.050				.0110	.0470	.0750	.1150
.081			-.0540				
.086		.0250					
.094	.0200						
.150				-.1320	-.0810	-.1020	-.0600
.177			-.1820				
.229	.0120						
.246		-.1030					
.250							
.362	-.0290			-.2140	-.1730	-.1500	-.1460
.400				-.2730	-.2380		-.1910
.402			-.2460				
.497	-.0800						
.550				-.2940	-.2710		
.565			-.2720				
.600							
.650							-.2470
.700	-.1700				-.2590		
.725				-.2810			
.750			-.2860				
.760						-.2710	-.2610
.775			-.2540				
				-.2830	-.2730		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.2240				
.834	-.1750						
.850				-.2670	-.2660	-.2620	
.857			-.1770				
.865	-.1100						
.900	-.0780			-.2320			-.2270
.905			-.1360				
.950				-.1980	-.2460	-.2470	
.953			-.0920				
.965	.0150						

MACH (2) = 2.000 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0270	-.0390	.3650	.9180	.8450	.8530	.7820
.050				-.0260	.0290	.0520	.0890
.081			-.0870				
.086		-.0100					
.094	-.0170						
.150				-.1490	-.0990	-.1160	-.0810
.177			-.2020				
.229	-.0170						
.246		-.1280					
.250				-.2230	-.1840	-.1640	-.1610
.362	-.0580			-.2760	-.2450		-.2030
.400							
.402			-.2520				
.497	-.1090						
.550				-.2980	-.2790		
.565			-.2690				
.600							-.2550
.650						-.2660	
.700	-.1670				-.2850		
.725				-.2910			
.750						-.2780	-.2690
.760			-.2500				
.775				-.2870	-.2750		
.808			-.2080				
.834	-.1770						
.850				-.2700	-.2740	-.2690	
.857			-.1880				
.865	-.1190						
.900	-.0910			-.2360			-.2390
.905			-.1610				
.950				-.2020	-.2490	-.2610	
.953			-.1390				

AMES 97-707 1A9 OCA + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.220		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	-.0090						
MACH (2) = 2.000 BETAT (4) = -.120		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1170	-.1330	.2310	.7770	.7160	.7340	.6700
		.050				-.0800	-.0260	.0010	.0330
		.081			-.1440				
		.086		-.0840					
		.094	-.0810						
		.150				-.1880	-.1370	-.1490	-.1140
		.177			-.2330				
		.229	-.0930						
		.246		-.1710					
		.250				-.2470	-.2110	-.1920	-.1860
		.362	-.1120						
		.400				-.2900	-.2640		-.2250
		.402			-.2580				
		.497	-.1470						
		.550				-.3010	-.2920		
		.565			-.2520				
		.600							-.2690
		.650						-.2760	
		.700	-.2010				-.2850		
		.725				-.2910			
		.750						-.2780	-.2860
		.760			-.2340				
		.775				-.2820	-.2860		
		.808			-.2140				
		.834	-.1560						
		.850				-.2770	-.2870	-.2750	
		.857			-.2050				
		.865	-.1050						
		.900	-.0830			-.2710			-.2620
		.905			-.1880				
		.950				-.2590	-.2620	-.2700	
		.953			-.1590				
		.965	-.0370						
MACH (2) = 2.000 BETAT (5) = 3.990		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1900	-.1900	.0670	.6150	.5970	.6080	.5410
		.050				-.1540	-.0910	-.0500	-.0260
		.081			-.1990				
		.086		-.1310					
		.094	-.1420						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2380	-.1840	-.1750	-.1480
.177			-.2430				
.229	-.1370						
.246		-.1770					
.250				-.2820	-.2460	-.2160	-.2090
.362	-.1160						
.400				-.2990	-.2890		-.2410
.402			-.2390				
.497	-.1400						
.550				-.3020	-.3030		
.565			-.2400				
.600							-.2740
.650						-.2680	
.700	-.1890				-.2910		
.725				-.2850			
.750						-.2790	-.2750
.760			-.1930				
.775				-.2540	-.2870		
.808			-.1830				
.834	-.1150						
.850				-.2300	-.2690	-.2810	
.857			-.1870				
.865	-.1180						
.900	-.1090			-.2140			-.2750
.905			-.1700				
.950				-.1890	-.2410	-.2650	
.953			-.1420				
.965	-.0790						

MACH (2) = 2.000 BETAT (6) = 6.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2030	-.2290	-.0380	.4700	.5420	.5560	.4780
.050				-.1830	-.1210	-.0830	-.0690
.081			-.2280				
.086		-.1680					
.094	-.1620						
.150				-.2560	-.2040	-.1950	-.1700
.177			-.2320				
.229	-.1540						
.246		-.1650					
.250				-.2840	-.2590	-.2320	-.2240
.362	-.1180						
.400				-.2830	-.2950		-.2500
.402			-.2280				
.497	-.1420						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2790	-.2850		
.565			-.2350				
.600							-.2450
.650						-.2540	
.700	-.1900				-.2820		
.725				-.2420			
.750						-.2640	-.2570
.760			-.1990				
.775				-.2150	-.2730		
.808			-.1900				
.834	-.1250						
.850				-.2000	-.2610	-.2640	
.857			-.1750				
.865	-.1290						
.900	-.1170			-.1910			-.2330
.905			-.1530				
.950				-.1760	-.2180	-.2440	
.953			-.1230				
.965	-.0850						

MACH (2) = 2.000 BETAT (7) = 8.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2120	-.2420	-.1060	.3550	.6130	.6280	.5470
.050				-.2070	-.1110	-.0650	-.0360
.081			-.2100				
.086		-.2110					
.094	-.1810						
.150				-.2570	-.1970	-.1880	-.1580
.177			-.2030				
.229	-.1710						
.246		-.1810					
.250				-.2480	-.2530	-.2260	-.2150
.362	-.1200						
.400				-.2500	-.2850		-.2480
.402			-.2190				
.497	-.1450						
.550				-.2420	-.2970		
.565			-.2210				
.600							-.2740
.650						-.2690	
.700	-.1890				-.2850		
.725				-.2300			
.750						-.2780	-.2760
.760			-.1810				
.775				-.1820	-.2800		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU16)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1590				
.834	-.0940						
.850				-.1480	-.2670	-.2800	
.857			-.1290				
.865	-.0810						
.900	-.0620			-.1290			-.2750
.905			-.1040				
.950				-.1160	-.2320	-.2620	
.953			-.0800				
.965	-.0410						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUCFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.410

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0980	.0830	.3570	.7610	.7620	.7470	.7260
.050				.2960	.4040	.4370	.4950
.081			.2320				
.086		.1530					
.094	.1740						
.150				.0830	.1200	.1160	.1660
.177			.0800				
.229	.1250						
.246		.0560					
.250				-.0320	-.0270	.0250	.0170
.362	.0800						
.400				-.1520	-.1460		-.0830
.402			-.1210				
.497	.0190						
.550				-.1930	-.2110		
.565			-.1260				
.600							-.2390
.650						-.2510	
.700	-.0510				-.2350		
.725				.0090			
.750						-.2570	-.2640
.760			.0860				
.775				.0530	-.2360		
.808			.1340				
.834	.1960						
.850				.1050	-.0420	-.2240	
.857			.1680				
.865	.1190						
.900	.1550			.1460			-.1810
.905			.1870				
.950				.1940	.0540	-.1540	
.953			.1980				
.965	.1790						

MACH (1) = 1.555 BETAT (2) = -6.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0640	.0820	.2950	.6910	.6760	.6770	.6480
.050				.2730	.3720	.4150	.4670
.081			.2180				
.086		.1270					
.094	.1450						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0700	.1090	.1020	.1480
.177			.0780				
.229	.1120						
.246		.0370					
.250				-.0310	-.0280	.0150	.0070
.362	.0550						
.400				-.1500	-.1460		-.0900
.402			-.1220				
.497	.0150						
.550				-.1840	-.2130		
.565			-.1370				
.650							-.2430
.650						-.2480	
.700	-.0600				-.2320		
.725				-.0070			
.750						-.2530	-.2700
.760			.0700				
.775				.0420	-.2260		
.808			.1070				
.834	.1740						
.850				.0970	-.0620	-.2180	
.857			.1280				
.865	.0900						
.900	.1170			.1260			-.1870
.905			.1460				
.950				.1650	.0550	-.1530	
.953			.1610				
.965	.1340						

MACH (1) = 1.555 BETAT (3) = -4.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0340	.0490	.2300	.6160	.6040	.5950	.5640
.050				.2700	.3590	.3970	.4430
.081			.2000				
.086		.0940					
.094	.1200						
.150				.0780	.1050	.1000	.1410
.177			.0780				
.229	.0830						
.246		.0370					
.250				-.0300	-.0290	.0160	.0050
.362	.0660						
.400				-.1510	-.1370		-.1000
.402			-.1260				
.497	-.0050						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.500

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1940	-.2100		
.565			-.1420				
.600							-.2490
.650						-.2460	
.700	-.0690				-.2300		
.725				-.0120			
.750						-.2490	-.2750
.760			.0600				
.775				.0400	-.2280		
.808			.0920				
.834	.1490						
.850				.0920	-.0440	-.2180	
.857			.1020				
.865	.0590						
.900	.0910			.1150			-.1960
.905			.1160				
.950				.1470	.0630	-.1440	
.953			.1320				
.965	.1050						

MACH (1) = 1.555 BETAT (4) = -.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0360	.0110	.1340	.4960	.4710	.4370	.4010
.050				.2540	.3250	.3460	.3760
.081			.1620				
.086		.0650					
.094	.0720						
.150				.0680	.0900	.0800	.1060
.177			.0700				
.229	.0730						
.246		.0070					
.250				-.0300	-.0350	.0010	-.0100
.362	.0390						
.400				-.1480	-.1380		-.1030
.402			-.1310				
.497	-.0410						
.550				-.1880	-.2060		
.565			-.1320				
.600							-.2500
.650						-.2370	
.700	-.0310				-.2270		
.725				-.0030			
.750						-.2430	-.2830
.760			.0370				
.775				.0530	-.1910		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.180

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0540				
.834	.1130						
.850				.0810	-.0020	-.2080	
.857			.0590				
.865	.0120						
.900	.0450			.0810			-.2020
.905			.0640				
.950				.0930	.1090	-.0290	
.953			.0760				
.965	.0540						

MACH (1) = 1.555 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0940	-.0250	.0810	.3760	.3300	.4060	.3480
.050				.2090	.2660	.3780	.3890
.081			.1310				
.086		.0300					
.094	.0370						
.150				.0470	.0470	.1110	.1360
.177			.0570				
.229	.0460						
.246		-.0070					
.250				-.0370	-.0470	.0520	.0250
.362	.0300						
.400				-.1470	-.0810		-.0740
.402			-.1250				
.497	-.0550						
.550				-.1790	-.1570		
.565			-.1370				
.600							-.2180
.650						-.2000	
.700	-.0440				-.1780		
.725				.0550			
.750						-.2060	-.2530
.760			.0220				
.775				.0890	-.0230		
.808			.0440				
.834	.0860						
.850				.0940	.0770	-.1250	
.857			.0560				
.865	-.0300						
.900	-.0030			.0800			-.1660
.905			.0560				
.950				.0880	.1600	.0780	
.953			.0660				

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0380						

MACH (1) = 1.555 BETAT (6) = 5.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1360	-.0280	.0600	.4070	.3540	.3000	.3100
.050				.2670	.3100	.3260	.3480
.081			.1170				
.086		.0210					
.094	.0250						
.150				.0990	.0890	.0900	.1180
.177			.1170				
.229	.0430						
.246		-.0130					
.250				.0070	.0000	.0360	.0180
.362	.0300						
.400				-.1090	-.0980		-.0800
.402			-.0880				
.497	-.0580						
.550				-.1150	-.1660		
.565			-.0280				
.600							-.2100
.650						-.1950	
.700	.0410				-.0470		
.725				.0520			
.750						-.1960	-.2340
.760			.0620				
.775				.0730	.0340		
.808			.0510				
.834	.1390						
.850				.0690	.0800	.0370	
.857			.0410				
.865	.0100						
.900	.0340			.0560			-.1030
.905			.0500				
.950				.0680	.1310	.1510	
.953			.0570				
.965	.0410						

MACH (1) = 1.555 BETAT (7) = 8.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1680	.0310	.0810	.3450	.2870	.2960	.2760
.050				.2440	.2660	.3550	.3440
.081			.1700				
.086		.0670					
.094	.0540						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0850	.0660	.1080	.1420
.177			.1160				
.229	.0980						
.246		.0220					
.250				.0070	-.0160	.0560	.0420
.362	.0720						
.400				-.1100	-.0680		-.0590
.402			-.0840				
.497	-.0150						
.550				-.1380	-.1370		
.565		-.0880					
.600							-.2130
.650						-.1740	
.700	.0090				-.0190		
.725				.0520			
.750						-.1500	-.2420
.760			.0380				
.775				.0800	.0340		
.808			.0410				
.834	.1150						
.850				.0770	.0770	.0650	
.857			.0350				
.865	-.0250						
.900	-.0120			.0550			-.0650
.905			.0350				
.950				.0580	.1460	.1410	
.953			.0450				
.965	.0100						

MACH (2) = 2.000 BETAT (1) = -8.380

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0470	.1640	.4190	.8560	.8600	.8720	.8690
.050				.2940	.4290	.5000	.5530
.081			.2340				
.086		.1980					
.094	.1700						
.150				.1180	.2050	.2140	.2570
.177			.0970				
.229	.1700						
.243		.1010					
.250				.0120	.0570	.0970	.1230
.362	.1190						
.400				-.0800	-.0610		.0300
.402			-.0510				
.497	.0490						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.380

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.550					-.1060	-.1270		
.565				-.0850				
.600								-.1010
.650							-.1260	
.700	-.0150					-.1430		
.725				-.1360				
.750							-.1390	-.1400
.760				.0270				
.775				-.0190	-.1410			
.808				.0590				
.834	.1400							
.850					.0590	-.1190	-.1240	
.857				.0900				
.865	.1430							
.900	.1760				.0830			-.1030
.905				.1400				
.950					.0890	-.0630	-.0890	
.953				.1850				
.965	.1960							

MACH (2) = 2.000 BETAT (2) = -6.330

	Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW								
.000	.0060	.1170	.3910	.7750	.7760	.7780	.7980	
.050				.2740	.3850	.4380	.5280	
.081			.2140					
.086		.1630						
.094	.1390							
.150				.1160	.1640	.1750	.2390	
.177			.0850					
.229	.1360							
.246		.0830						
.250				.0210	.0310	.0790	.1030	
.362	.1050							
.400				-.0860	-.0710		.0100	
.402			-.0480					
.497	.0320							
.550				-.1190	-.1270			
.565			-.0940					
.600								-.1110
.650							-.1280	
.700	-.0170				-.1390			
.725				-.1350				
.750						-.1420	-.1480	
.760			.0030					
.775				-.0290	-.1370			

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0370				
.834	.1120						
.850				.0460	-.1170	-.1230	
.857			.0800				
.865	.1000						
.900	.1330			.0650			-.1130
.905			.1380				
.950				.0730	-.0590	-.0890	
.953			.1860				
.965	.1780						

MACH (2) = 2.000 BETAT (3) = -4.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0190	.0770	.3540	.7380	.6730	.6900	.7160
.050				.2710	.3320	.4090	.4750
.081			.2150				
.086		.1330					
.094	.1080						
.150				.0970	.1370	.1630	.2040
.177			.0880				
.229	.1100						
.246		.0810					
.250				-.0070	.0200	.0680	.0790
.362	.0920						
.400				-.1010	-.0760		-.0060
.402			-.0670				
.497	.0260						
.550				-.1270	-.1310		
.565			-.1050				
.600							-.1230
.650						-.1360	
.700	-.0320				-.1450		
.725				-.1420			
.750						-.1480	-.1580
.760			.0010				
.775				-.0410	-.1430		
.808			.0340				
.834	.1020						
.850				.0270	-.1240	-.1330	
.857			.0710				
.865	.0880						
.900	.1210			.0490			-.1230
.905			.1250				
.950				.0680	-.0490	-.0950	
.953			.1620				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.1460						

MACH (2) = 2.000 BETAT (4) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0510	.0320	.2710	.6340	.5510	.5290	.5440
.050				.2210	.2900	.3330	.3810
.081			.1580				
.086		.1010					
.094	.0720						
.150				.0800	.1150	.1210	.1510
.177			.0720				
.229	.0820						
.246		.0590					
.250				-.0040	.0040	.0420	.0470
.362	.0720						
.400				-.0870	-.0850		-.0250
.402			-.0600				
.497	.0110						
.550				-.1220	-.1310		
.565			-.0910				
.600							-.1300
.650						-.1360	
.700	-.0310				-.1440		
.725				-.1330			
.750						-.1440	-.1650
.760			-.0070				
.775				-.0520	-.1420		
.808			.0270				
.834	.0800						
.850				.0150	-.1210	-.1240	
.857			.0590				
.865	.0520						
.900	.0760			.0400			-.1250
.905			.0910				
.950				.0690	-.0530	-.0840	
.953			.1060				
.965	.0850						

MACH (2) = 2.000 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0010	.0050	.1950	.4960	.4410	.4080	.3940
.050				.1740	.2410	.2940	.3220
.081			.1370				
.086		.0660					
.094	.0310						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0570	.0780	.1000	.1200
.177			.0740				
.229	.0570						
.246		.0520					
.250				-.0110	-.0200	.0210	.0230
.362	.0780						
.400				-.0950	-.0920		-.0350
.402			-.0610				
.497	.0100						
.550				-.1330	-.1320		
.565			-.0990				
.600							-.1360
.650						-.1390	
.700	-.0490				-.1440		
.725				-.1400			
.750						-.1450	-.1710
.760			-.0210				
.775				-.0620	-.1440		
.808			.0160				
.834	.0590						
.850				-.0010	-.1250	-.1250	
.857			.0350				
.865	.0240						
.900	.0420			.0230			-.1330
.905			.0530				
.950				.0560	-.0450	-.0880	
.953			.0620				
.965	.0490						

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0240	-.0140	.1730	.4250	.3780	.3460	.3360
.050				.1580	.2160	.2590	.2650
.081			.1270				
.086		.0640					
.094	-.0010						
.150				.0530	.0710	.0760	.0980
.177			.0690				
.229	.0590						
.246		.0430					
.250				-.0100	-.0200	.0070	.0220
.362	.0760						
.400				-.0900	-.0930		-.0420
.402			-.0640				
.497	.0040						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1270	-.1300		
.565			-.1000				
.600							-.1420
.650						-.1390	
.700	-.0540			-.1440			
.725			-.1280				
.750						-.1470	-.1750
.760			-.0170				
.775				-.0510	-.1440		
.808			.0160				
.834	.0610						
.850				.0040	-.1240	-.1270	
.857			.0330				
.865	.0210						
.900	.0320			.0310			-.1360
.905			.0490				
.950				.0600	-.0110	-.0880	
.953			.0510				
.965	.0340						

MACH (2) = 2.000 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0630	-.0250	.1600	.3770	.3290	.2800	.3670
.050				.1450	.1970	.2160	.3380
.081			.1190				
.086		.0560					
.094	-.0140						
.150				.0470	.0550	.0530	.1400
.177			.0640				
.229	.0610						
.246		.0310					
.250				-.0110	-.0320	.0540	.0500
.362	.0650						
.400				-.0960	-.0960		-.0180
.402			-.0680				
.497	-.0040						
.550				-.1210	-.1320		
.565			-.0950				
.600							-.1280
.650						-.1230	
.700	-.0560				-.1390		
.725				-.1310			
.750						-.1300	-.1600
.760			-.0040				
.775				-.0360	-.1270		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU17)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0240				
.834	.0680						
.850				.0080	-.1020	-.1060	
.857			.0320				
.865	.0200						
.900	.0280			.0310			-.1180
.905			.0390				
.950				.0570	.0490	-.0660	
.953			.0360				
.965	.0270						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU18) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.340

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0880	.1230	.4190	.8120	.7780	.7910	.7750
.050				.1570	.2630	.3120	.3910
.081			.1170				
.086		.1020					
.094	.1170						
.150				-.0340	.0160	.0250	.0660
.177			-.0480				
.229	.0710						
.246		-.0230					
.250				-.1590	-.1250	-.0790	-.0770
.362	.0080						
.400				-.2530	-.2460		-.1700
.402			-.2010				
.497	-.0520						
.550				-.2830	-.3050		
.565			-.2060				
.600							-.3000
.650						-.3230	
.700	-.1290				-.3190		
.725				-.1480			
.750						-.3350	-.3210
.760			-.0480				
.775				-.0700	-.3200		
.808			.0160				
.834	.0990						
.850				-.0430	-.2420	-.3090	
.857			.0690				
.865	.0620						
.900	.0880			-.0110			-.2600
.905			.1080				
.950				.0390	-.0610	-.2510	
.953			.1340				
.965	.1130						

MACH (1) = 1.555 BETAT (2) = -6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0560	.0890	.3470	.7570	.7210	.7340	.7150
.050				.1280	.2480	.2970	.3710
.081			.1080				
.086		.0760					
.094	.0780						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0340	.0160	.0120	.0540
.177			-.0470				
.229	.0500						
.246		-.0310					
.250				-.1510	-.1270	-.0890	-.0820
.362	-.0070						
.400				-.2350	-.2380		-.1780
.402			-.1940				
.497	-.0520						
.550				-.2630	-.2980		
.565			-.2040				
.600							-.3050
.650						-.3240	
.700	-.1430				-.3120		
.725				-.1640			
.750						-.3350	-.3270
.760			-.0470				
.775				-.0600	-.3060		
.808				.0110			
.834	.0650						
.850				-.0320	-.2480	-.3040	
.857			.0530				
.865	.0350						
.900	.0600			.0040			-.2550
.905			.0800				
.950				.0430	-.0660	-.2460	
.953			.1010				
.965	.0760						

MACH (1) = 1.555 BETAT (3) = -4.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0010	.0070	.2930	.6430	.6410	.6640	.6540
.050				.1130	.2120	.2790	.5450
.081			.0850				
.086		.0500					
.094	.0380						
.150				-.0370	-.0010	.0040	.0480
.177			-.0360				
.229	.0290						
.246		-.0320					
.250				-.1270	-.1280	-.0930	-.0920
.362	-.0050						
.400				-.2230	-.2230		-.1790
.402			-.1930				
.497	-.0610						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2570	-.2870		
.565			-.2080				
.600							-.3090
.650						-.3150	
.700	-.1510				-.2990		
.725			-.1510				
.750						-.3230	-.3300
.760			-.0520				
.775				-.0660	-.2970		
.808			.0060				
.834	.0380						
.850				-.0340	-.2330	-.2950	
.857			.0360				
.865	.0040						
.900	.0280			-.0030			-.2570
.905			.0520				
.950				.0400	-.0630	-.2350	
.953			.0710				
.965	.0500						

MACH (1) = 1.555 BETAT (4) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0990	-.0030	.2050	.5320	.5170	.5320	.5270
.050				.1090	.2020	.2360	.2830
.081			.0650				
.086		.0290					
.094	-.0310						
.150				-.0420	-.0130	-.0190	.0160
.177			-.0340				
.229	.0170						
.246		-.0440					
.250				-.1200	-.1320	-.0950	-.1080
.362	-.0160						
.400				-.2190	-.2230		-.1890
.402			-.1960				
.497	-.0910						
.550				-.2540	-.2780		
.565			-.2090				
.600							-.3150
.650						-.3130	
.700	-.1210				-.2950		
.725				-.1310			
.750						-.3140	-.3370
.760			-.0500				
.775				-.0660	-.2930		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.160		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.808			-.0150				
		.834	.0110						
		.850				-.0140	-.1550	-.2830	
		.857			.0030				
		.865	-.0410						
		.900	-.0140			.0130			-.2720
		.905			.0090				
		.950				.0370	-.0470	-.2250	
		.953			.0220				
		.965	.0000						
MACH (1) = 1.555 BETAT (5) = 3.930		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1460	-.0530	.1380	.4370	.4080	.5550	.5260
		.050				.0860	.1630	.2770	.2870
		.081			.0540				
		.086		-.0020					
		.094	-.0570						
		.150				-.0460	-.0190	.0140	.0270
		.177			-.0260				
		.229	-.0080						
		.246		-.0500					
		.250				-.1260	-.0980	-.0600	-.0870
		.362	-.0250						
		.400				-.2100	-.1750		-.1640
		.402			-.1870				
		.497	-.0940						
		.550				-.2140	-.2280		
		.565			-.1960				
		.600							-.2930
		.650						-.2710	
		.700	-.1050				-.2470		
		.725				-.0310			
		.750						-.2750	-.3130
		.760			-.0090				
		.775				.0100	-.2300		
		.808			.0190				
		.834	.0020						
		.850				.0410	-.0450	-.2400	
		.857			.0260				
		.865	-.0550						
		.900	-.0180			.0420			-.2310
		.905			.0220				
		.950				.0490	.0650	-.0790	
		.953			.0340				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930	Y/BW	.299	.364	.427	.534	.673	.780	.887	
	X/CW	.965	.0300						
MACH (1) = 1.555 BETAT (6) = 5.980	Y/BW	.299	.364	.427	.534	.673	.780	.887	
	X/CW	.000	-.1840	-.0730	.1200	.4670	.4980	.4670	.4330
		.050			.1320	.2220	.2190	.2420	
		.081		.1000					
		.086		-.0140					
		.094	-.0800						
		.150			.0050	.0160	-.0160	-.0020	
		.177		.0250					
		.229	-.0100						
		.246		-.0590					
		.250			-.0710	-.0980	-.0840	-.1110	
		.362	-.0290						
		.400			-.1670	-.1750		-.1810	
		.402		-.1410					
		.497	-.0860						
		.550			-.1710	-.2340			
		.565		-.0970					
		.600							-.3010
		.650						-.2740	
		.700	-.0150			-.2390			
		.725			-.0090				
		.750						-.2770	-.3190
		.760		.0110					
		.775			.0170	-.0860			
		.808		.0080					
		.834	.0730						
		.850			.0320	-.0030	-.1670		
		.857		.0050					
		.865	-.0200						
		.900	.0030		.0210				-.2170
		.905		.0090					
		.950			.0290	.0810	-.0270		
		.953		.0180					
		.965	.0040						
MACH (1) = 1.555 BETAT (7) = 8.020	Y/BW	.299	.364	.427	.534	.673	.780	.887	
	X/CW	.000	-.2140	.0070	.1920	.4370	.4030	.3650	.3910
		.050			.1140	.1700	.1810	.2390	
		.081		.0950					
		.086		.0430					
		.094	-.0750						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0040	-.0140	.0010	.0000
.177			.0350				
.229	.0440						
.246		-.0080					
.250				-.0800	-.1110	-.0600	-.0990
.362	.0180						
.400				-.1690	-.1740		-.1660
.402			-.1380				
.497	-.0340						
.550				-.1930	-.2090		
.565			-.1550				
.600							-.2890
.650						-.2550	
.700	-.0630				-.2210		
.725				-.0230			
.750						-.2590	-.3120
.760			-.0210				
.775				.0160	-.0750		
.808			-.0200				
.834	.0310						
.850				.0300	-.0030	-.1640	
.857			-.0270				
.905	-.0570						
.900	-.0410			.0140			-.2280
.905			-.0240				
.950				.0140	.0700	-.0050	
.953			-.0080				
.965	-.0490						

MACH (2) = 2.000 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0490	.1680	.4520	.9310	.9010	.9220	.9160
.050				.2380	.3360	.3940	.4610
.081			.1100				
.086		.1420					
.094	.0660						
.150				.0360	.1260	.1450	.1850
.177			-.0530				
.229	.1080						
.246		.0430					
.250				-.0690	-.0070	.0270	.0490
.362	.0660						
.400				-.1510	-.1170		-.0350
.402			-.1070				
.497	.0050						

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1700	-.1810		
.565			-.1360				
.600							-.1450
.650						-.1700	
.700	-.0650				-.1990		
.725				-.1900			
.750						-.1820	-.1720
.760			-.0440				
.775				-.1380	-.2010		
.808			-.0180				
.834	.0650						
.850				-.0270	-.1860	-.1700	
.857			-.0090				
.865	.0910						
.900	.1240			-.0040			-.1450
.905			.0280				
.950				.0040	-.1500	-.1420	
.953			.0810				
.965	.1490						

MACH (2) = 2.000 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0090	.1210	.3800	.8970	.8230	.8320	.8510
.050				.2120	.3010	.3420	.4350
.081			.1210				
.086		.1130					
.094	.0550						
.150				.0150	.0850	.1180	.1700
.177			.0010				
.229	.0750						
.246		.0210					
.250				-.0750	-.0400	.0080	.0340
.362	.0460						
.400				-.1560	-.1340		-.0540
.402			-.1010				
.497	-.0150						
.550				-.1830	-.1890		
.565			-.1400				
.600							-.1580
.650						-.1810	
.700	-.0600				-.2040		
.725				-.1920			
.750						-.1940	-.1880
.760			-.0600				
.775				-.1200	-.2040		

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0330				
.834	.0420						
.850				-.0300	-.1880	-.1890	
.857			-.0090				
.865	.0400						
.900	.0680			-.0070			-.1630
.905			.0370				
.950				.0020	-.1490	-.1530	
.953			.0850				
.965	.1210						

MACH (2) = 2.000 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0120	.0850	.3640	.7380	.7440	.7650	.7720
.050				.1660	.2530	.3160	.3900
.081			.1190				
.086		.0870					
.094	.0370						
.150				.0020	.0550	.0980	.1410
.177			.0000				
.229	.0550						
.246		.0210					
.250				-.0820	-.0540	-.0050	.0140
.362	.0360						
.400				-.1480	-.1410		-.0700
.402			-.1120				
.497	-.0100						
.550				-.1720	-.1860		
.565		-.1400					
.600							-.1670
.650						-.1670	
.700	-.0800				-.2010		
.725				-.1850			
.750						-.1970	-.1950
.760			-.0620				
.775				-.1190	-.1980		
.808			-.0390				
.834	.0360						
.850				-.0270	-.1790	-.1880	
.857			-.0180				
.865	.0330						
.900	.0610			.0010			-.1710
.905			.0210				
.950				.0120	-.1380	-.1550	
.953			.0690				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0950						

MACH (2) = 2.000 BETAT (4) = -.160

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0230	.0130	.2640	.6300	.5280	.5590	.6020
.050				.1390	.1740	.2220	.2880
.081			.0750				
.086		.0400					
.094	.0190						
.150				-.0160	.0230	.0420	.0790
.177			-.0140				
.229	.0120						
.246		-.0100					
.250				-.0880	-.0720	-.0380	-.0270
.362	.0070						
.400				-.1520	-.1420		-.0990
.402			-.1130				
.497	-.0340						
.550				-.1690	-.1840		
.565			-.1400				
.600							-.1860
.650						-.1910	
.700	-.0810				-.1920		
.725				-.1840			
.750						-.2010	-.2090
.760			-.0740				
.775				-.1180	-.1890		
.808			-.0510				
.834	.0090						
.850				-.0590	-.1700	-.1850	
.857			-.0270				
.865	-.0090						
.900	.0130			-.0350			-.1810
.905			.0090				
.950				-.0180	-.1090	-.1500	
.953			.0390				
.965	.0310						

MACH (2) = 2.000 BETAT (5) = 3.920

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0650	-.0470	.1630	.4850	.4330	.4070	.4310
.050				.0890	.1570	.1910	.2310
.081			.0560				
.086		-.0010					
.094	-.0410						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.920

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0180	.0100	.0310	.0450
.177			-.0060				
.229	-.0170						
.246		-.0090					
.250				-.0760	-.0760	-.0410	-.0410
.362	.0090						
.400				-.1400	-.1410		-.0970
.402			-.1100				
.497	-.0400						
.550				-.1700	-.1770		
.565			-.1420				
.600							-.1770
.650						-.1860	
.700	-.0950				-.1870		
.725				-.1820			
.750						-.1900	-.2040
.760			-.0840				
.775				-.1230	-.1840		
.808			-.0570				
.834	-.0150						
.850				-.0670	-.1670	-.1700	
.857			-.0340				
.865	-.0350						
.900	-.0180			-.0460			-.1730
.905			-.0100				
.950				-.0240	-.1160	-.1340	
.953			.0050				
.965	-.0030						

MACH (2) = 2.000 BETAT (6) = 5.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0810	-.0810	.1090	.4000	.3730	.3770	.3880
.050				.0560	.1310	.1820	.2230
.081			.0390				
.086		-.0040					
.094	-.0620						
.150				-.0250	.0040	.0210	.0420
.177			-.0060				
.229	-.0130						
.246		-.0190					
.250				-.0780	-.0800	-.0500	-.0440
.362	.0050						
.400				-.1400	-.1450		-.0950
.402			-.1100				
.497	-.0470						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.1700	-.1770		
.565			-.1390				
.600							
.650						-.1790	
.700	-.0980				-.1830		
.725				-.1710			
.750						-.1850	-.2100
.760			-.0810				
.775				-.1150	-.1790		
.808			-.0520				
.834	-.0190						
.850				-.0610	-.1610	-.1650	
.857			-.0320				
.865	-.0360						
.900	-.0220			-.0390			-.1740
.905			-.0120				
.950				-.0140	-.0890	-.1350	
.953			-.0050				
.965	-.0120						

MACH (2) = 2.000 BETAT (7) = 8.010

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1050	-.1010	.0840	.3440	.3150	.4450	.4900
.050				.0510	.1140	.2530	.2950
.081			.0420				
.086		-.0020					
.094	-.0740						
.150				-.0240	-.0070	.0660	.0990
.177			-.0030				
.229	-.0100						
.246		-.0210					
.250				-.0740	-.0850	-.0110	-.0010
.362	.0020			-.1400	-.1380		-.0630
.400							
.402			-.1120				
.497	-.0520						
.550				-.1590	-.1420		
.565			-.1330				
.600							
.650						-.1610	
.700	-.0960				-.1530		
.725				-.1540			
.750				-.1650			
.760			-.0670			-.1590	-.1920
.775				-.0880	-.1520		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU18)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0360				
.834	-.0120						
.850				-.0300	-.1310	-.1430	
.857			-.0200				
.865	-.0310						
.900	-.0210			-.0020			-.1540
.905			-.0060				
.950				.0260	-.0190	-.1070	
.953			-.0040				
.965	-.0160						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1155

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU19) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0610	.1160	.4390	.8680	.8320	.8530	.8240
.050				.0900	.1510	.1700	.2570
.081			.0210				
.086		.0730					
.094	.0780						
.150				-.1180	-.0630	-.0530	-.0200
.177			-.1470				
.229	.0380						
.246		-.0820					
.250				-.2330	-.1940	-.1620	-.1570
.362	-.0300						
.400				-.3220	-.2970		-.2380
.402			-.2600				
.497	-.1010						
.550				-.3430	-.3670		
.565			-.2690				
.600							
.650							-.3440
.700	-.1800				-.3750		
.725				-.3880			
.750			-.3240				
.760					-.3810	-.3510	
.775			-.1340				
.808				-.1320	-.3920		
.834	.0240		-.1010				
.850							
.857				-.0980	-.3730	-.3590	
.865	.0250		-.0410				
.900	.0560						
.905				-.0900			-.2610
.950			.0270				
.953				-.0680	-.1870	-.2980	
.965	.0820		.0900				

MACH (1) = 1.555 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0220	.0800	.3810	.8100	.7760	.8070	.7760
.050				.0720	.1280	.1510	.2330
.081			.0190				
.086		.0330					
.094	.0370						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1320	-.0720	-.0660	-.0330
.177			-.1500				
.229	.0060						
.246		-.1000					
.250				-.2380	-.2020	-.1710	-.1670
.362	-.0620						
.400				-.3200	-.3030		-.2460
.402			-.2600				
.497	-.1040						
.550				-.3330	-.3660		
.565			-.2640				
.600							-.3520
.650						-.3770	
.700	-.1930				-.3850		
.725				-.3140			
.750						-.3840	-.3520
.760			-.1360				
.775				-.1400	-.3870		
.808			-.0980				
.834	.0010						
.850				-.1020	-.3660	-.3630	
.857			-.0480				
.865	.0040						
.900	.0330			-.0880			-.2730
.905			.0050				
.950				-.0660	-.1780	-.3110	
.953			.0570				
.965	.0480						

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0370	.0310	.3480	.7500	.7240	.7600	.7310
.050				.0400	.1040	.1350	.2110
.081			-.0110				
.086		-.0010					
.094	.0000						
.150				-.1420	-.0870	-.0790	-.0480
.177			-.1470				
.229	-.0260						
.246		-.1000					
.250				-.2360	-.2130	-.1830	-.1780
.362	-.0660						
.400				-.3030	-.3080		-.2550
.402			-.2530				
.497	-.1050						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.3180	-.3670		
.565			-.2640				
.600							-.3620
.650						-.3810	
.700	-.1980				-.3790		
.725				-.2950			
.750						-.3870	-.3660
.760			-.1380				
.775				-.1380	-.3720		
.808			-.0970				
.834	-.0170						
.850				-.1030	-.3460	-.3690	
.857			-.0480				
.865	-.0280						
.900	-.0040			-.0870			-.2700
.905			-.0010				
.950				-.0640	-.1570	-.3230	
.953				.0330			
.965	.0210						

MACH (1) = 1.555 BETAT (4) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1360	-.0360	.2300	.5970	.6330	.6570	.6190
.050				-.0050	.0500	.0800	.1490
.081			-.0230				
.086		-.0110					
.094	-.0740						
.150				-.1420	-.1140	-.1130	-.0840
.177			-.1240				
.229	-.0350						
.246		-.0940					
.250				-.2180	-.2220	-.2070	-.2000
.362	-.0610						
.400				-.2780	-.3050		-.2760
.402			-.2450				
.497	-.1270						
.550				-.3140	-.3510		
.565			-.2580				
.600							-.3770
.650						-.3810	
.700	-.1860				-.3620		
.725				-.2000			
.750						-.3890	-.3810
.760			-.1210				
.775				-.1260	-.3560		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0740				
.834	-.0420						
.850				-.0970	-.3190	-.3660	
.857			-.0420				
.865	-.0720						
.900	-.0480			-.0760			-.3020
.905			-.0280				
.950				-.0450	-.1200	-.3090	
.953			-.0150				
.965	-.0270						

MACH (1) = 1.555 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2030	-.1640	.1720	.5820	.6150	.6420	.6950
.050				-.0370	.0630	.0690	.1310
.081			-.0370				
.086		-.0340					
.094	-.1170						
.150				-.1440	-.0850	-.1070	-.0840
.177			-.1060				
.229	-.0430						
.246		-.0910					
.250				-.2120	-.1900	-.1040	-.2050
.362	-.0650						
.400				-.2370	-.2730		-.2690
.402			-.2310				
.497	-.1200						
.550				-.2570	-.3160		
.565			-.2100				
.600							-.3590
.650						-.3580	
.700	-.1400				-.3190		
.725				-.1150			
.750						-.3580	-.3510
.760			-.0580				
.775				-.0650	-.3070		
.808			-.0250				
.834	.0150						
.850				-.0290	-.1820	-.3300	
.857			-.0090				
.865	-.0300						
.900	.0010			-.0080			-.2640
.905			.0010				
.950				.0090	-.0200	-.2470	
.953			.0060				

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0020						

MACH (1) = 1.555 BETAT (6) = 5.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2370	-.1840	.2450	.5810	.5200	.5120	.4860
.050				-.0110	.0160	.0220	.0680
.081			.0340				
.086		-.0350					
.094	-.1360						
.150				-.1050	-.1120	-.1360	-.1220
.177			-.0630				
.229	-.0460						
.246		-.0570					
.250				-.1770	-.2130	-.2080	-.2250
.362	-.0720						
.400				-.2260	-.2800		-.2850
.402			-.1640				
.497	-.0310						
.550				-.2260	-.3010		
.565		-.1630					
.600							-.3700
.650						-.3590	
.700	-.0650				-.2980		
.725				-.0870			
.750						-.3470	-.3590
.760			-.0480				
.775				-.0560	-.2660		
.808			-.0380				
.834	-.0070						
.850				-.0220	-.0980	-.3000	
.857			-.0340				
.865	-.0560						
.900	-.0440			-.0230			-.3080
.905			-.0320				
.950				-.0120	.0030	-.1380	
.953			-.0300				
.965	-.0410						

MACH (1) = 1.555 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2780	-.0950	.2060	.5010	.4060	.3950	.4540
.050				-.0490	-.0240	-.0140	.0750
.081			.0040				
.086		.0300					
.094	-.0510						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1190	-.1390	-.1400	-.1200
.177			-.0520				
.229	.0150						
.246		-.0350					
.250				-.1740	-.2220	-.1920	-.2190
.362	-.0160						
.400				-.2400	-.2740		-.2750
.402			-.1880				
.497	-.0520						
.550				-.2580	-.2930		
.565			-.2160				
.600							-.3590
.650						-.3370	
.700	-.1420				-.2930		
.725				-.1190			
.750						-.3290	-.3480
.760			-.0870				
.775				-.0810	-.2590		
.808			-.0710				
.834	-.0410						
.850				-.0390	-.1170	-.2900	
.857			-.0720				
.865	-.0930						
.900	-.0840			-.0320			-.2980
.905			-.0680				
.950				-.0230	-.0110	-.1590	
.953			-.0590				
.965	-.0840						

MACH (2) = 2.000 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0500	.1510	.4770	1.0010	.9130	.9330	.9150
.050				.1750	.2750	.2890	.3500
.081			.0770				
.086		.1050					
.094	.0880						
.150				-.0100	.0610	.0690	.1060
.177			-.0660				
.229	.0740						
.246		-.0020					
.250				-.1120	-.0670	-.0320	-.0140
.362	.0420						
.400				-.1920	-.1570		-.0860
.402			-.1460				
.497	-.0210						

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2240	-.2150		
.565			-.1730				
.600							-.1800
.650						-.2020	
.700	-.0950				-.2300		
.725				-.2330			
.750						-.2160	-.2030
.760			-.1170				
.775				-.2240	-.2340		
.808			-.0840				
.834	-.0200						
.850				-.1200	-.2240	-.2010	
.857			-.0680				
.865	.0150						
.900	.0490			-.0550			-.1600
.905			-.0490				
.950				-.0320	-.2000	-.1780	
.953			-.0210				
.965	.1010						

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0080	.1070	.4150	.9320	.8390	.8440	.8550
.050				.1380	.2250	.2530	.3210
.081			.0520				
.086		.0740					
.094	.0290						
.150				-.0370	.0230	.0460	.0880
.177			-.0840				
.229	.0380						
.246		-.0280					
.250				-.1390	-.0940	-.0500	-.0310
.362	.0130						
.400				-.2160	-.1750		-.1070
.402			-.1620				
.497	-.0460						
.550				-.2400	-.2240		
.565			-.1950				
.600							-.1960
.650						-.2150	
.700	-.1100				-.2420		
.725				-.2440			
.750						-.2280	-.2160
.760			-.1370				
.775				-.2330	-.2460		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1010				
.834	-.0450						
.850				-.1230	-.2370	-.2190	
.857			-.0830				
.865	-.0170						
.900	.0120			-.0630			-.2040
.905			-.0620				
.950				-.0520	-.2140	-.1930	
.953			-.0290				
.965	.0760						

MACH (2) = 2.000 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0150	.0700	.3520	.8640	.7570	.7790	.7870
.050				.0880	.1820	.2220	.2820
.081			.0040				
.086		.0480					
.094	-.0070						
.150				-.0740	-.0030	.0210	.0590
.177			-.1010				
.229	.0090						
.246		-.0390					
.250				-.1620	-.1090	-.0690	-.0560
.362	-.0050						
.400				-.2280	-.1880		-.1230
.402			-.1700				
.497	-.0580						
.550				-.2400	-.2350		
.565			-.1900				
.600							-.2090
.650						-.2270	
.700	-.1320				-.2520		
.725				-.2360			
.750						-.2400	-.2280
.760			-.1300				
.775				-.2180	-.2560		
.808			-.1080				
.834	-.0440						
.850				-.1120	-.2490	-.2320	
.857			-.1040				
.865	-.0310						
.900	-.0070			-.0810			-.2070
.905			-.0770				
.950				-.0670	-.2230	-.2080	
.953			-.0370				

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.220	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
		.965	.0470					
MACH (2) = 2.000 BETAT (4) = -.140	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
		.000	-.0650	-.0280	.2150	.5590	.6010	.6370
		.050				.0110	.0960	.1530
		.081			-.0250			.2120
		.086		-.0160				
		.094	-.0580					
		.150			-.1050	-.0680	-.0280	.0140
		.177		-.1090				
		.229	-.0440					
		.246		-.0790				
		.250			-.1660	-.1510	-.1120	-.0890
		.362	-.0530					
		.400			-.2060	-.2110		-.1510
		.402		-.1600				
		.497	-.0790					
		.550			-.2110	-.2450		
		.565		-.1780				
		.600						-.2290
		.650					-.2410	
		.700	-.1280			-.2520		
		.725			-.2160			
		.750					-.2520	-.2500
		.760		-.1240				
		.775			-.1550	-.2490		
		.808		-.1120				
		.834	-.0480					
		.850			-.1060	-.2280	-.2440	
		.857		-.0990				
		.865	-.0590					
		.900	-.0450		-.0850			-.2340
		.905		-.0710				
		.950			-.0750	-.1780	-.2250	
		.953		-.0410				
		.965	-.0140					
MACH (2) = 2.000 BETAT (5) = 3.930	Y/BW	.299	.364	.427	.534	.673	.780	.887
	X/CW							
		.000	-.1070	-.0960	.1230	.4640	.4120	.4350
		.050				.0060	.0510	.0800
		.081			-.0210			.1310
		.086		-.0600				
		.094	-.1040					

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0950	-.0660	-.0450	-.0300
.177			-.0770				
.229	-.0790						
.246		-.0610					
.250				-.1390	-.1380	-.1070	-.1080
.362	-.0440						
.400				-.1840	-.1890		-.1570
.402			-.1510				
.497	-.0770						
.550				-.2050	-.2170		
.565			-.1750				
.600							-.2220
.650						-.2220	
.700	-.1280				-.2250		
.725				-.2080			
.750						-.2310	-.2300
.760			-.1250				
.775				-.1470	-.2220		
.808			-.1080				
.834	-.0670						
.850				-.1100	-.2020	-.2160	
.857			-.0930				
.865	-.0740						
.900	-.0620			-.0900			-.2130
.905			-.0680				
.950				-.0780	-.1370	-.1850	
.953			-.0480				
.965	-.0390						

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1350	-.1310	-.0860	.4190	.3870	.4120	.4140
.050				-.0120	.0540	.0810	.1080
.081			-.0340				
.086		-.0650					
.094	-.1110						
.150				-.0970	-.0640	-.0470	-.0370
.177			-.0730				
.229	-.0820						
.246		-.0660					
.250				-.1350	-.1390	-.1130	-.1100
.362	-.0500						
.400				-.1820	-.1920		-.1580
.402			-.1480				
.497	-.0820						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.675	.780	.887
X/CW							
.550				-.2050	-.2200		
.565			-.1700				
.600							-.2190
.650						-.2220	
.700	-.1300				-.2220		
.725			-.1960				
.750						-.2290	-.2260
.760			-.1200				
.775				-.1420	-.2160		
.808			-.1000				
.834	-.0670						
.850				-.1030	-.2000	-.2180	
.857			-.0840				
.865	-.0720						
.900	-.0590			-.0830			-.2020
.905			-.0640				
.950				-.0680	-.1230	-.1840	
.953			-.0480				
.965	-.0400						

MACH (2) = 2.000 BETAT (7) = 6.020

Y/BW	.299	.364	.427	.534	.675	.780	.887
X/CW							
.600	-.1580	-.1570	.0360	.3720	.3750	.5340	.5010
.650				-.0250	.0440	.1360	.1610
.681			-.0260				
.686		-.0660					
.694	-.1230						
.150				-.0940	-.0490	-.0120	-.0030
.177			-.0690				
.229	-.0780						
.246		-.0710					
.250				-.1330	-.1010	-.0840	-.0840
.362	-.0530						
.400				-.1830	-.1630		-.1380
.402			-.1530				
.497	-.0940						
.550				-.1920	-.1880		
.565			-.1670				
.600							-.2100
.650						-.2070	
.700	-.1340				-.1980		
.725				-.1750			
.750						-.2130	-.2190
.760			-.1120				
.775				-.1100	-.1940		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU19)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0780				
.834	-.0620						
.850				-.0600	-.1810	-.2020	
.857			-.0430				
.865	-.0710						
.900	-.0560			-.0400			-.1970
.935			-.0190				
.950				-.0260	-.1190	-.1690	
.953			-.0050				
.965	-.0370						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU2D) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0350	.0510	.4500	.9100	.8670	.8740	.7610
.050				-.0480	.0190	.0000	.0480
.081				-.0760			
.086		.0340					
.094	.0480						
.150				-.2100	-.1580	-.1620	-.1600
.177			-.2440				
.229	-.0050						
.246		-.1350					
.250				-.3210	-.2750	-.2500	-.2590
.362	-.0650						
.400				-.4010	-.3670		-.3090
.402			-.3210				
.497	-.1290						
.550				-.4230	-.4210		
.565			-.3200				
.600							-.3890
.650						-.4230	
.700	-.2390				-.4360		
.725				-.4190			
.750						-.4170	-.3930
.760			-.1900				
.775				-.3460	-.4230		
.808			-.1690				
.834	-.0530						
.850				-.2880	-.4110	-.4010	
.857			-.1480				
.865	-.0120						
.900	.0210			-.1750			-.3430
.905			-.1000				
.950				-.0810	-.3050	-.3560	
.953			-.0300				
.965	.0530						

MACH (1) = 1.555 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0160	.0110	.4060	.8650	.8030	.8450	.7450
.050				-.0580	-.0010	.0120	.0500
.081				-.0810			
.086			-.0100				
.094	.0000						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU2D)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2200	-.1680	-.1650	-.1630
.177			-.2550				
.229	-.0360						
.246		-.1460					
.250				-.3250	-.2800	-.2560	-.2640
.362	-.1000						
.400				-.4010	-.3660		-.3120
.402			-.3190				
.497	-.1400						
.550				-.4170	-.4210		
.565			-.3150				
.600							-.3910
.650						-.4240	
.700	-.2420				-.4410		
.725				-.4160			
.750						-.4240	-.3960
.760			-.1960				
.775				-.3200	-.4420		
.808			-.1810				
.834	-.0720						
.850				-.2180	-.4140	-.4080	
.857			-.1570				
.865	-.0300						
.900	.0020			-.1500			-.3480
.905			-.1080				
.950				-.0990	-.3160	-.3690	
.953			-.0440				
.965	.0280						

MACH (1) = 1.555 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0800	-.0440	.3610	.8080	.7460	.7680	.7090
.050				-.0990	-.0390	-.0190	.0360
.081			-.1180				
.086		-.0380					
.094	-.0320						
.150				-.2400	-.1930	-.1850	-.1740
.177			-.2680				
.229	-.0790						
.246		-.1680					
.250				-.3340	-.2980	-.2680	-.2730
.362	-.1070						
.400				-.4010	-.3770		-.3240
.402			-.3120				
.497	-.1470						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4070	-.4260		
.565			-.3150				
.600							-.4000
.650						-.4290	
.700	-.2450				-.4420		
.725				-.3950			
.750						-.4300	-.4060
.760			-.2070				
.775				-.2540	-.4450		
.800			-.1910				
.834	-.0760						
.850				-.1540	-.4180	-.4130	
.857			-.1580				
.865	-.0550						
.900	-.0250			-.1060			-.3590
.905			-.1040				
.950				-.0920	-.3200	-.3660	
.953			-.0420				
.965	-.0040						

MACH (1) = 1.555 BETAT (4) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1850	-.1500	.2400	.7050	.6520	.6690	.6080
.050				-.1540	-.0960	-.0740	-.0120
.081			-.1520				
.086		-.0740					
.094	-.0880						
.150				-.2600	-.2240	-.2260	-.2050
.177			-.2460				
.229	-.0910						
.246		-.1620					
.250				-.3400	-.3180	-.2980	-.2990
.362	-.1090						
.400				-.3800	-.3880		-.3430
.402			-.3040				
.497	-.1560						
.550				-.3880	-.4330		
.565			-.3100				
.600							-.4140
.650						-.4390	
.700	-.2430				-.4390		
.725				-.3200			
.750						-.4400	-.4210
.760			-.2100				
.775				-.1900	-.4310		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1750				
.834	-.0600						
.850				-.1450	-.3870	-.4220	
.857			-.1280				
.865	-.0880						
.900	-.0730			-.1270			-.3720
.905			-.0790				
.950				-.1200	-.2850	-.3850	
.953			-.0450				
.965	-.0540						

MACH (1) = 1.555 BETAT (5) = 3.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2500	-.2650	.1520	.5770	.6440	.6620	.5770
.050				-.1920	-.0980	-.0910	-.0540
.081			-.1410				
.086		-.0960					
.094	-.1470						
.150				-.2730	-.2130	-.2230	-.2220
.177			-.2180				
.229	-.0960						
.246		-.1340					
.250				-.3140	-.3020	-.2940	-.3060
.362	-.0930						
.400				-.3260	-.3740		-.3470
.402			-.2790				
.497	-.1480						
.550				-.3240	-.4110		
.565			-.2530				
.600							-.4160
.650						-.4260	
.700	-.2140				-.4050		
.725				-.1910			
.750						-.4070	-.4210
.760			-.1470				
.775				-.1520	-.3880		
.808			-.1110				
.834	-.0320						
.850				-.1190	-.3360	-.4060	
.857			-.0710				
.865	-.0610						
.900	-.0430			-.0920			-.3700
.905			-.0450				
.950				-.0630	-.1380	-.3190	
.953			-.0240				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0230						

MACH (1) = 1.555 BETAT (6) = 6.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3260	-.2530	.1320	.5880	.5630	.5520	.4760
.050				-.1980	-.1590	-.1540	-.1130
.081			-.1190				
.086		-.1790					
.094	-.1710						
.150				-.2530	-.2500	-.2650	-.2610
.177			-.1350				
.229	-.0860						
.246		-.0590					
.250				-.2890	-.3270	-.3230	-.3360
.362	-.0300						
.400				-.3040	-.3890		-.3730
.402			-.2220				
.497	-.0570						
.550				-.2990	-.3940		
.565			-.2410				
.600							-.4310
.650						-.4220	
.700	-.1560				-.3850		
.725				-.1890			
.750						-.4140	-.4180
.760			-.1280				
.775				-.1550	-.3460		
.808			-.1060				
.834	-.0580						
.850				-.1090	-.1700	-.4020	
.857			-.0920				
.865	-.1000						
.900	-.0840			-.0880			-.3710
.905			-.0810				
.950				-.0670	-.0950	-.3130	
.953			-.0740				
.965	-.0690						

MACH (1) = 1.555 BETAT (7) = 8.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3460	-.1910	.0660	.4750	.4430	.4850	.4370
.050				-.2040	-.1870	-.1730	-.1220
.081			-.0940				
.086		-.1040					
.094	-.0870						

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.080

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2610	-.2670	-.2630	-.2660
.177			-.1320				
.229	-.0120						
.246		-.0630					
.250				-.2780	-.3370	-.3160	-.3380
.362	-.0370						
.400				-.3010	-.3710		-.3710
.402			-.2380				
.497	-.0980						
.550				-.3130	-.3710		
.565			-.2770				
.600							-.4320
.650						-.4220	
.700	-.2170				-.3660		
.725				-.2120			
.750						-.4110	-.4190
.760			-.1560				
.775				-.1650	-.3290		
.808			-.1340				
.834	-.0850						
.850				-.1140	-.1920	-.3940	
.857			-.1180				
.865	-.1310						
.900	-.1190			-.0900			-.4040
.905			-.1010				
.950				-.0680	-.1430	-.3050	
.953			-.0840				
.965	-.1090						

MACH (2) = 2.000 BETAT (1) = -8.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0470	.1050	.4690	1.0220	.9450	.9570	.8980
.050				.0770	.1620	.1900	.2470
.081			.0090				
.086		.0720					
.094	.0820						
.150				-.0820	-.0210	-.0040	.0250
.177			-.1300				
.229	.0540						
.246		-.0550					
.250				-.1770	-.1340	-.0920	-.0830
.362	.0110						
.400				-.2470	-.2110		-.1380
.402			-.1910				
.497	-.0490						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2770	-.2480		
.565			-.2090				
.600							-.2130
.650						-.2370	
.700	-.1270				-.2610		
.725				-.2810			
.750						-.2470	-.2280
.760			-.1920				
.775				-.2710	-.2650		
.808			-.1430				
.834	-.0970						
.850				-.2380	-.2530	-.2350	
.857			-.1250				
.865	-.0460						
.900	-.0140			-.1680			-.1870
.905			-.0940				
.950				-.1340	-.2290	-.2170	
.953			-.0700				
.965	.0680						

MACH (2) = 2.000 BETAT (2) = -6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0370	.0520	.4060	.9530	.8630	.8700	.8500
.050				.0520	.1210	.1550	.2210
.081			-.0180				
.086		.0340					
.094	.0390						
.150				-.0950	-.0450	-.0220	.0060
.177			-.1390				
.229	.0130						
.246		-.0740					
.250				-.1820	-.1440	-.1030	-.0950
.362	-.0170						
.400				-.2510	-.2110		-.1510
.402			-.2040				
.497	-.0720						
.550				-.2770	-.2500		
.565			-.2260				
.600							-.2230
.650						-.2420	
.700	-.1470				-.2660		
.725				-.2760			
.750						-.2540	-.2390
.760			-.2070				
.775				-.2640	-.2690		

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1610				
.834	-.1290						
.850				-.2330	-.2590	-.2430	
.857			-.1300				
.865	-.0810						
.900	-.0490			-.1730			-.2020
.905			-.1030				
.950				-.1450	-.2430	-.2250	
.953			-.0840				
.965	.0460						

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0310	-.0080	.3440	.8770	.7880	.8150	.7890
.050				.0240	.0950	.1380	.1930
.081			-.0350				
.086		.0060					
.094	.0110						
.150				-.1170	-.0560	-.0340	-.0130
.177			-.1530				
.229	-.0110						
.246		-.0870					
.250				-.1950	-.1500	-.1130	-.1060
.362	-.0350						
.400				-.2550	-.2180		-.1590
.402			-.2080				
.497	-.0880						
.550				-.2790	-.2560		
.565			-.2190				
.600							-.2280
.650						-.2450	
.700	-.1670				-.2690		
.725				-.2780			
.750						-.2580	-.2470
.760			-.1840				
.775				-.2640	-.2720		
.808			-.1620				
.834	-.1200						
.850				-.2120	-.2630	-.2480	
.857			-.1580				
.865	-.0750						
.900	-.0470			-.1770			-.2220
.905			-.1490				
.950				-.1610	-.2470	-.2310	
.953			-.1280				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0190						

MACH (2) = 2.000 BETAT (4) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0970	-.0980	.2080	.7380	.6670	.6890	.6680
.050				-.0390	.0350	.0710	.1230
.081			-.1130				
.086		-.0610					
.094	-.0570						
.150				-.1600	-.1000	-.0820	-.0580
.177			-.1990				
.229	-.0690						
.246		-.1300					
.250				-.2290	-.1850	-.1520	-.1410
.362	-.0940						
.400				-.2800	-.2440		-.1900
.402			-.2040				
.497	-.1150						
.550				-.2860	-.2770		
.565			-.2140				
.600							-.2500
.650						-.2630	
.700	-.1660				-.2880		
.725				-.2830			
.750						-.2770	-.2670
.760			-.1690				
.775				-.2550	-.2850		
.808			-.1570				
.834	-.0910						
.850				-.1850	-.2780	-.2680	
.857			-.1550				
.865	-.0850						
.900	-.0690			-.1470			-.2450
.905			-.1350				
.950				-.1120	-.2590	-.2570	
.953			-.1050				
.965	-.0390						

MACH (2) = 2.000 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1560	-.1670	.0850	.5620	.5330	.5790	.5630
.050				-.1120	-.0500	.0040	.0580
.081			-.1340				
.086		-.1080					
.094	-.1200						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1870	-.1410	-.1230	-.1000
.177			-.1640				
.229	-.1140						
.246		-.1160					
.250				-.2260	-.2050	-.1800	-.1720
.362	-.0830						
.400				-.2440	-.2500		-.2090
.452			-.1910				
.497	-.1090						
.550				-.2460	-.2740		
.565			-.2010				
.600							-.2600
.650						-.2680	
.700	-.1590				-.2770		
.725				-.2160			
.750						-.2770	-.2740
.760			-.1630				
.775				-.1740	-.2720		
.808			-.1550				
.834	-.0970						
.850				-.1510	-.2640	-.2670	
.857			-.1490				
.865	-.1030						
.900	-.0900			-.1350			-.2570
.905			-.1270				
.950				-.1210	-.1960	-.2560	
.953			-.1010				
.965	-.0630						

MACH (2) = 2.000 BETAT (6) = 5.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1790	-.1910	-.0100	.4830	.4790	.5440	.5130
.050				-.1300	-.0600	-.0220	.0330
.081			-.1280				
.086		-.1180					
.094	-.1380						
.150				-.1860	-.1520	-.1350	-.1140
.177			-.1380				
.229	-.1240						
.246		-.1070					
.250				-.2140	-.2110	-.1890	-.1830
.362	-.0810						
.400				-.2260	-.2490		-.2180
.452			-.1800				
.497	-.1070						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2380	-.2710		
.565			-.1970				
.600							-.2610
.650						-.2690	
.700	-.1580				-.2700		
.725				-.2030			
.750						-.2710	-.2770
.760			-.1620				
.775				-.1640	-.2620		
.808			-.1460				
.834	-.0950						
.850				-.1390	-.2420	-.2640	
.857			-.1320				
.865	-.0990						
.900	-.0870			-.1210			-.2090
.905			-.1050				
.950				-.1090	-.1520	-.2510	
.953			-.0790				
.965	-.0570						

MACH (2) = 2.000 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1850	-.2070	-.0680	.3590	.5610	.5970	.5580
.050				-.1400	-.0250	.0090	.0450
.081			-.1120				
.086		-.1430					
.094	-.1510						
.150				-.1780	-.1220	-.1130	-.1000
.177			-.1280				
.229	-.1300						
.246		-.0990					
.250				-.2000	-.1870	-.1710	-.1690
.362	-.0870						
.400				-.2090	-.2340		-.2060
.402			-.1870				
.497	-.1150						
.550				-.2130	-.2550		
.565			-.1960				
.600							-.2590
.650						-.2600	
.700	-.1630				-.2550		
.725				-.1980			
.750						-.2670	-.2690
.760			-.1290				
.775				-.1370	-.2480		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU20)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1010				
.834	-.0830						
.850				-.1040	-.2300	-.2560	
.857			-.0820				
.865	-.0760						
.900	-.0520			-.0870			-.2540
.905			-.0570				
.950				-.0740	-.1460	-.2440	
.953			-.0390				
.965	-.0150						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU21) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0290	.0200	.4330	.9410	.8390	.8240	.6860
.050				-.1040	-.1060	-.0960	-.0640
.081			-.1190				
.086		.0010					
.094	.0470						
.150				-.2410	-.2150	-.2420	-.2330
.177			-.2850				
.229	-.0150						
.246		-.1570					
.250				-.3440	-.3150	-.3060	-.3110
.362	-.0730			-.4250	-.3920		-.3540
.400							
.402			-.3330				
.497	-.1320						
.550				-.4340	-.4400		
.565			-.3280				
.600							-.4130
.650						-.3920	
.700	-.2570				-.4180		
.725				-.4320			
.750						-.3960	-.3990
.760			-.2050				
.775				-.4120	-.4040		
.808			-.1750				
.834	-.0980						
.850				-.3540	-.3730	-.3980	
.857			-.1830				
.865	-.0380						
.900	.0000			-.3040			-.3850
.905			-.1430				
.950				-.2450	-.3080	-.3620	
.953			-.0820				
.965	.0390						

MACH (1) = 1.555 BETAT (2) = -6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0200	-.0280	.4000	.8740	.8180	.7760	.6490
.050				-.1190	-.1050	-.1130	-.0760
.081			-.1330				
.086		-.0320					
.094	-.0050						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2530	-.2180	-.2510	-.2380
.177			-.3000				
.229	-.0450						
.246		-.1720					
.250				-.3500	-.3240	-.3150	-.3210
.362	-.1060						
.400				-.4300	-.3970		-.3620
.402			-.3410				
.497	-.1540						
.550				-.4420	-.4440		
.565			-.3320				
.600							-.4220
.650						-.4040	
.700	-.2660				-.4310		
.725				-.4370			
.750						-.4070	-.4120
.760			-.2180				
.775				-.4220	-.4220		
.808			-.1960				
.834	-.1020						
.850				-.3890	-.3930	-.4070	
.857			-.1950				
.865	-.0480						
.900	-.0160			-.3190			-.3870
.905			-.1560				
.950				-.2070	-.3190	-.3740	
.953			-.0980				
.965	.0140						

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1020	-.0850	.3380	.8080	.7830	.7470	.6910
.050				-.1610	-.1130	-.1230	-.0990
.081			-.1720				
.086		-.0580					
.094	-.0380						
.150				-.2850	-.2370	-.2610	-.2510
.177			-.3190				
.229	-.0790						
.246		-.1900					
.250				-.3710	-.3360	-.3230	-.3310
.362	-.1190						
.400				-.4380	-.4080		-.3700
.402			-.3410				
.497	-.1650						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4450	-.4530		
.565			-.3270				
.600							-.4290
.650						-.4320	
.700	-.2720				-.4440		
.725				-.4540			
.750						-.4260	-.4370
.760			-.2260				
.775				-.4240	-.4380		
.808			-.2120				
.834	-.0970						
.850				-.3010	-.4180	-.4220	
.857			-.1940				
.865	-.0570						
.900	-.0280			-.1740			-.3980
.905			-.1480				
.950				-.0890	-.3260	-.3840	
.953			-.1020				
.965	-.0060						

MACH (1) = 1.555 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2040	-.2180	.1790	.6880	.6390	.6710	.5240
.050				-.2260	-.1660	-.1410	-.1240
.081			-.2190				
.086		-.1050					
.094	-.0930						
.150				-.3140	-.2800	-.2790	-.2680
.177			-.3180				
.229	-.1100						
.246		-.1960					
.250				-.3840	-.3620	-.3420	-.3480
.362	-.1280						
.400				-.4260	-.4230		-.3870
.402			-.3250				
.497	-.1720						
.550				-.4410	-.4590		
.565			-.3270				
.600							-.4250
.650						-.4170	
.700	-.2710				-.4470		
.725				-.3730			
.750						-.4230	-.4220
.760			-.2430				
.775				-.2080	-.4380		

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808							
.834	-.0740						
.850				-.1670	-.4110	-.4210	
.857				-.1760			
.865	-.0850						
.900	-.0700			-.1360			-.4190
.905				-.1200			
.950				-.1350	-.3140	-.3630	
.953				-.0790			
.965	-.0580						

MACH (1) = 1.555 BETAT (5) = 3.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2930	-.2670	.0600	.5660	.6360	.6440	.5110
.050				-.2690	-.1770	-.1600	-.1410
.081				-.2060			
.086		-.1510					
.094	-.1520						
.150				-.3250	-.2750	-.2860	-.2790
.177				-.2510			
.229	-.1210						
.246		-.1590					
.250				-.3470	-.3520	-.3440	-.3530
.362	-.1040						
.400				-.3650	-.4120		-.3870
.402				-.2750			
.497	-.1630						
.550				-.3430	-.4170		
.565				-.2830			
.600							-.3980
.650						-.3990	
.700	-.2520				-.4140		
.725				-.2020			
.750						-.4100	-.4100
.760				-.1780			
.775				-.1600	-.4030		
.808				-.1400			
.834	-.0290						
.850				-.1350	-.3560	-.3840	
.857				-.1020			
.865	-.0650						
.900	-.0490			-.1160			-.3810
.905				-.0670			
.950				-.0860	-.2850	-.3250	
.953				-.0470			

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 3.980	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	-.0320						
MACH (1) = 1.555	BETAT (6) = 6.040	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3510	-.2720	.0690	.5430	.5520	.5440	.4230
		.050				-.2640	-.2330	-.2100	-.1790
		.081			-.1780				
		.086		-.2040					
		.094	-.1680						
		.150				-.3140	-.3140	-.3220	-.3080
		.177			-.1600				
		.229	-.1040						
		.246		-.1220					
		.250				-.3420	-.3790	-.3740	-.3780
		.362	-.0190						
		.400				-.3230	-.4250		-.4090
		.402			-.2440				
		.497	-.0740						
		.550				-.3170	-.4110		
		.565			-.2700				
		.600							-.3980
		.650						-.4070	
		.700	-.1910				-.4130		
		.725				-.2300			
		.750						-.4150	-.4190
		.760			-.1690				
		.775				-.1870	-.4020		
		.808			-.1440				
		.834	-.0760						
		.850				-.1330	-.3360	-.3920	
		.857			-.1260				
		.865	-.1170						
		.900	-.1050			-.1030			-.3600
		.905			-.1060				
		.950				-.0750	-.1960	-.3450	
		.953			-.0950				
		.965	-.0830						
MACH (1) = 1.555	BETAT (7) = 8.110	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3550	-.2220	.0120	.4020	.4290	.4830	.3880
		.050				-.2680	-.2690	-.2290	-.1960
		.081			-.1350				
		.086		-.1230					
		.094	-.1030						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.3080	-.3360	-.3300	-.3180
.177			-.1680				
.229	-.0290						
.246		-.1330					
.250				-.3190	-.3860	-.3750	-.3840
.362	-.0360						
.400				-.3250	-.4140		-.4140
.402			-.2610				
.497	-.1130						
.550				-.3350	-.4180		
.565			-.2970				
.600							-.4480
.650						-.4360	
.700	-.2410				-.4000		
.725				-.2520			
.750						-.4370	-.4420
.760			-.1890				
.775				-.2090	-.3610		
.808			-.1630				
.834	-.1070						
.850				-.1590	-.2310	-.4330	
.857			-.1360				
.865	-.1470						
.900	-.1370			-.1290			-.4390
.905			-.1250				
.950				-.1020	-.1710	-.3730	
.953			-.1150				
.965	-.1160						

MACH (2) = 2.000 BETAT (1) = -8.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0860	.0810	.4750	1.0540	.9650	.9600	.8780
.050				.0620	.1220	.1340	.1810
.081			-.0120				
.086		.0610					
.094	.0690						
.150				-.0910	-.0360	-.0400	-.0140
.177			-.1510				
.229	.0500						
.246		-.0700					
.250				-.1800	-.1440	-.1190	-.1130
.362	.0000						
.400				-.2520	-.2170		-.1610
.402			-.2160				
.497	-.0600						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2810	-.2600		
.565			-.2350				
.600							-.2250
.650						-.2470	
.700	-.1380				-.2710		
.725				-.2770			
.750						-.2560	-.2410
.760			-.2230				
.775				-.2700	-.2730		
.808			-.1850				
.834	-.1270						
.850				-.2400	-.2610	-.2480	
.857			-.1480				
.865	-.0720						
.900	-.0390			-.1980			-.1950
.905			-.1050				
.950				-.1610	-.2460	-.2300	
.953			-.0680				
.965	.0480						

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0230	.0300	.4210	.9810	.8830	.8890	.8400
.050				.0300	.0810	.1080	.1620
.081			-.0430				
.086		.0210					
.094	.0240						
.150				-.1200	-.0680	-.0570	-.0320
.177			-.1680				
.229	.0100						
.246		-.1000					
.250				-.2030	-.1650	-.1310	-.1260
.362	-.0330						
.400				-.2680	-.2300		-.1760
.402			-.2330				
.497	-.0820						
.550				-.2880	-.2690		
.565			-.2560				
.600							-.2380
.650						-.2580	
.700	-.1630				-.2810		
.725				-.2850			
.750						-.2690	-.2550
.760			-.2360				
.775				-.2760	-.2810		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1970				
.834	-.1610						
.850				-.2460	-.2690	-.2600	
.857			-.1580				
.865	-.1040						
.900	-.0740			-.2010			-.2140
.905			-.1200				
.950				-.1660	-.2540	-.2480	
.953			-.0870				
.965	.0270						

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0210	-.0330	.3500	.8940	.8080	.8310	.7820
.050				-.0110	.0540	.0880	.1390
.081			-.0710				
.086		-.0060					
.094	-.0120						
.150				-.1440	-.0820	-.0710	-.0480
.177			-.1870				
.229	-.0210						
.246		-.1140					
.250				-.2160	-.1730	-.1420	-.1380
.362	-.0500						
.400				-.2690	-.2350		-.1850
.402			-.2290				
.497	-.1010						
.550				-.2920	-.2700		
.565			-.2340				
.600							-.2430
.650						-.2590	
.700	-.1820				-.2810		
.725				-.2890			
.750						-.2710	-.2610
.760			-.2150				
.775				-.2780	-.2750		
.808			-.1850				
.834	-.1550						
.850				-.2430	-.2670	-.2620	
.857			-.1730				
.865	-.1020						
.900	-.0740			-.2090			-.2290
.905			-.1600				
.950				-.1930	-.2560	-.2500	
.953			-.1420				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0050						

MACH (2) = 2.000 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1290	-.1120	.2070	.7520	.6870	.7090	.6600
.050				-.0660	-.0050	.0310	.0740
.081			-.1310				
.086		-.0810					
.094	-.0850						
.150				-.1780	-.1230	-.1080	-.0890
.177			-.2180				
.229	-.0870						
.246		-.1560					
.250				-.2410	-.2030	-.1720	-.1650
.362	-.1050						
.400				-.2880	-.2580		-.2070
.402			-.2310				
.497	-.1300						
.550				-.2990	-.2860		
.565			-.2320				
.600							-.2580
.650						-.2720	
.700	-.1820				-.2860		
.725				-.2890			
.750						-.2840	-.2770
.760			-.1980				
.775				-.2770	-.2820		
.808			-.1860				
.834	-.1160						
.850				-.2660	-.2780	-.2750	
.857			-.1870				
.865	-.0910						
.900	-.0730			-.2510			-.2540
.905			-.1710				
.950				-.2220	-.2610	-.2670	
.953			-.1390				
.965	-.0390						

MACH (2) = 2.000 BETAT (5) = 3.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1780	-.1680	.0800	.5900	.5760	.5990	.5540
.050				-.1360	-.0680	-.0230	.0170
.081			-.1730				
.086		-.1180					
.094	-.1380						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2160	-.1660	-.1450	-.1230
.177			-.2120				
.229	-.1280						
.246		-.1430					
.250				-.2590	-.2290	-.2020	-.1890
.362	-.0970						
.400				-.2740	-.2730		-.2270
.402			-.2060				
.497	-.1230						
.550				-.2720	-.2900		
.565			-.2150				
.600							-.2720
.650						-.2700	
.700	-.1720				-.2810		
.725				-.2290			
.750						-.2720	-.2830
.760			-.1800				
.775				-.1880	-.2770		
.808			-.1750				
.834	-.1080						
.850				-.1640	-.2690	-.2740	
.857			-.1700				
.865	-.1090						
.900	-.0980			-.1510			-.2690
.905			-.1520				
.950				-.1390	-.2350	-.2620	
.953			-.1250				
.965	-.0680						

MACH (2) = 2.000 BETAT (6) = 6.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1920	-.2050	-.0190	.5010	.5090	.5600	.5030
.050				-.1610	-.0970	-.0510	-.0150
.081			-.1910				
.086		-.1360					
.094	-.1550						
.150				-.2310	-.1820	-.1640	-.1450
.177			-.1810				
.229	-.1350						
.246		-.1290					
.250				-.2490	-.2380	-.2160	-.2080
.362	-.0950						
.400				-.2580	-.2700		-.2400
.402			-.1970				
.497	-.1200						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2560	-.2920		
.565			-.2080				
.600							-.2760
.650						-.2670	
.700	-.1680				-.2820		
.725				-.2140			
.750						-.2720	-.2730
.760			-.1780				
.775				-.1840	-.2770		
.808			-.1730				
.834	-.1040						
.850				-.1620	-.2640	-.2730	
.857			-.1640				
.865	-.1090						
.900	-.0980			-.1470			-.2460
.905			-.1350				
.950				-.1340	-.2360	-.2470	
.953			-.1030				
.965	-.0630						

MACH (2) = 2.000 BETAT (7) = 8.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1960	-.2290	-.0990	.3540	.5810	.6130	.5460
.050				-.1830	-.0870	-.0430	-.0010
.081			-.1550				
.086		-.1770					
.094	-.1590						
.150				-.2060	-.1610	-.1520	-.1330
.177			-.1540				
.229	-.1460						
.246		-.1220					
.250				-.2160	-.2150	-.1990	-.1950
.362	-.0990						
.400				-.2280	-.2590		-.2280
.402			-.1980				
.497	-.1240						
.550				-.2280	-.2780		
.565			-.1970				
.600							-.2710
.650						-.2720	
.700	-.1690				-.2790		
.725				-.2090			
.750						-.2700	-.2830
.760			-.1500				
.775				-.1580	-.2710		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU21)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1280				
.834	-.0780						
.850				-.1260	-.2530	-.2690	
.857			-.1060				
.865	-.0660						
.900	-.0480			-.1060			-.2690
.905			-.0760				
.950				-.0920	-.1840	-.2590	
.953			-.0560				
.965	-.0240						

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU22) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0090	-.0290	.4270	.9070	.8090	.7840	.6180
.050				-.1760	-.1800	-.1670	-.1510
.081			-.1420				
.086		-.0230					
.094	.0430						
.150				-.2870	-.2790	-.2990	-.2890
.177			-.3280				
.229	-.0220						
.246		-.1770					
.250				-.3730	-.3570	-.3540	-.3570
.362	-.0820						
.400				-.4440	-.4200		-.3870
.402			-.3950				
.497	-.1220						
.550				-.4270	-.4140		
.565		-.3280					
.600							-.3910
.650						-.3900	
.700	-.2760				-.4120		
.725				-.4200			
.750						-.3990	-.4120
.760			-.2410				
.775				-.4050	-.3970		
.808			-.1990				
.834	-.1260						
.850				-.3610	-.3780	-.3890	
.857			-.2050				
.865	-.0520						
.900	-.0170			-.3080			-.3980
.905			-.1540				
.950				-.2870	-.3250	-.3560	
.953			-.1140				
.965	.0150						

MACH (1) = 1.555 BETAT (2) = -6.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0670	-.0920	.3890	.8700	.7780	.7440	.5830
.050				-.1830	-.1890	-.1800	-.1630
.081			-.1700				
.086		-.0550					
.094	-.0090						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2950	-.2900	-.3090	-.2990
.177			-.3410				
.229	-.0580						
.246		-.2010					
.250				-.3820	-.3670	-.3620	-.3640
.362	-.1100						
.400				-.4510	-.4260		-.3940
.402			-.3920				
.497	-.1550						
.550				-.4370	-.4190		
.565			-.3470				
.600							-.3930
.650						-.3940	
.700	-.2900				-.4180		
.725				-.4270			
.750						-.4050	-.4170
.760			-.2560				
.775				-.4120	-.4050		
.808			-.2200				
.834	-.1340						
.850				-.3690	-.3880	-.3930	
.857			-.2280				
.865	-.0660						
.900	-.0340			-.3220			-.4050
.905			-.1710				
.950				-.2990	-.3330	-.3640	
.953			-.1200				
.965	-.0080						

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1440	-.1720	.3090	.8200	.7380	.7080	.5390
.050				-.2110	-.2060	-.1980	-.1860
.081			-.2200				
.086		-.0830					
.094	-.0510						
.150				-.3210	-.3020	-.3230	-.3130
.177			-.3610				
.229	-.0860						
.246		-.2170					
.250				-.3970	-.3780	-.3750	-.3760
.362	-.1290						
.400				-.4600	-.4380		-.4010
.402			-.3840				
.497	-.1810						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4440	-.4330		
.565			-.3410				
.600							-.3970
.650						-.4010	
.700	-.2940				-.4250		
.725				-.4290			
.750						-.4110	-.4240
.760			-.2490				
.775				-.4090	-.4130		
.808			-.2210				
.834	-.1220						
.850				-.3660	-.3980	-.4000	
.857			-.2320				
.865	-.0720						
.900	-.0440			-.3340			-.4150
.905			-.1810				
.950				-.3150	-.3450	-.3750	
.953			-.1260				
.965	-.0170						

MACH (1) = 1.555 BETAT (4) = -.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2420	-.2730	.1260	.6750	.6480	.6250	.4450
.050				-.2750	-.2240	-.2250	-.2270
.081			-.2910				
.086		-.1320					
.094	-.1140						
.150				-.3640	-.3240	-.3390	-.3400
.177			-.3850				
.229	-.1180						
.246		-.2260					
.250				-.4220	-.3970	-.3890	-.3970
.362	-.1480						
.400				-.4500	-.4530		-.4010
.402			-.3360				
.497	-.1970						
.550				-.4510	-.4450		
.565			-.3390				
.600							-.3980
.650						-.4080	
.700	-.2970				-.4380		
.725				-.4300			
.750						-.4200	-.4290
.760			-.2540				
.775				-.3990	-.4290		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.110		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.808			-.2470				
		.834	-.0900						
		.850				-.3250	-.4160	-.4090	
		.857			-.1980				
		.865	-.0920						
		.900	-.0700			-.2680			-.4210
		.905			-.1630				
		.950				-.2270	-.3540	-.3790	
		.953			-.1310				
		.965	-.0470						
MACH (1) = 1.555 BETAT (5) = 3.940		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3220	-.2930	-.0100	.5170	.6100	.6160	.4420
		.050				-.3290	-.2470	-.2260	-.2350
		.081			-.2510				
		.086		-.2040					
		.094	-.1590						
		.150				-.3710	-.3340	-.3420	-.3450
		.177			-.2760				
		.229	-.1430						
		.246		-.2080					
		.250				-.3970	-.3960	-.3900	-.4010
		.362	-.1140						
		.400				-.4150	-.4480		-.4200
		.402			-.2880				
		.497	-.1760						
		.550				-.3670	-.4380		
		.565			-.3080				
		.600							-.4020
		.650						-.4190	
		.700	-.2680				-.4470		
		.725				-.2290			
		.750						-.4240	-.4200
		.760			-.2110				
		.775				-.1960	-.4400		
		.808			-.1720				
		.834	-.0430						
		.850				-.1780	-.4020	-.4020	
		.857			-.1400				
		.865	-.0770						
		.900	-.0640			-.1540			-.3800
		.905			-.1180				
		.950				-.1120	-.3140	-.3650	
		.953			-.0880				

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	-.0400						
MACH (1) = 1.555 BETAT (6) = 6.060		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3610	-.3000	-.0470	.4900	.5330	.5150	.3780
		.050				-.3350	-.2890	-.2680	-.2620
		.081			-.2210				
		.086		-.2220					
		.094	-.2030						
		.150				-.3890	-.3670	-.3690	-.3660
		.177			-.1860				
		.229	-.1310						
		.246		-.1440					
		.250				-.4010	-.4260	-.4140	-.4180
		.362	-.0290						
		.400				-.3470	-.4600		-.4300
		.402			-.2710				
		.497	-.0930						
		.550				-.3320	-.4380		
		.565		-.2990					
		.600							-.4210
		.650						-.4360	
		.700	-.2400				-.4460		
		.725				-.2720			
		.750						-.4370	-.4390
		.760		-.2090					
		.775			-.2150	-.4330			
		.808		-.1880					
		.834	-.0710						
		.850				-.1710	-.3870	-.4160	
		.857		-.1690					
		.865	-.1180						
		.900	-.1100			-.1430			-.3960
		.905		-.1500					
		.950			-.1140	-.3050	-.3810		
		.953		-.1230					
		.965	-.0920						
MACH (1) = 1.555 BETAT (7) = 8.120		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3630	-.2400	-.0540	.3500	.4180	.4630	.3380
		.050				-.3540	-.3210	-.2780	-.2690
		.081			-.1660				
		.086		-.1600					
		.094	-.2560						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.3670	-.3820	-.3750	-.3720
.177			-.2120				
.229	-.0600						
.246		-.1540					
.250				-.3650	-.4270	-.4170	-.4230
.362	-.0490						
.400				-.3460	-.4620		-.4490
.402			-.2870				
.497	-.1360						
.550				-.3450	-.4610		
.565			-.3220				
.600							-.4490
.650						-.4560	
.700	-.2690				-.4540		
.725				-.2890			
.750						-.4630	-.4640
.760			-.2150				
.775				-.2460	-.4320		
.808			-.1910				
.834	-.1320						
.850				-.2020	-.3120	-.4530	
.857			-.1780				
.865	-.1660						
.900	-.1530			-.1690			-.4400
.905			-.1620				
.950				-.1350	-.2200	-.4010	
.953			-.1480				
.965	-.1140						

MACH (2) = 2.000 BETAT (1) = -8.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0870	.0700	.4940	1.0910	.9510	.9550	.8500
.050				.0400	.0790	.0820	.1230
.081			-.0290				
.086		.0540					
.094	.0570						
.150				-.1090	-.0640	-.0760	-.0530
.177			-.1660				
.229	.0440						
.246		-.0770					
.250				-.1940	-.1610	-.1420	-.1390
.362	-.0070						
.400				-.2640	-.2310		-.1830
.402			-.2320				
.497	-.0690						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.330

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550				-.2890	-.2690		
.565			-.2610				
.600							-.2380
.650						-.2560	
.700	-.1470				-.2760		
.725				-.2790			
.750						-.2650	-.2510
.760			-.2500				
.775				-.2800	-.2670		
.808			-.2150				
.834	-.1540						
.850				-.2610	-.2610	-.2550	
.857			-.1550				
.865	-.0950						
.900	-.0630			-.2260			-.2150
.905			-.1010				
.950				-.1880	-.2490	-.2320	
.953			-.0540				
.965	.0310						

MACH (2) = 2.000 BETAT (2) = -6.280

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	.0370	.0150	.4330	1.0130	.9010	.8850	.8140
.050				.0110	.0470	.0710	.1100
.081			-.0590				
.086		.0170					
.094	.0150						
.150				-.1330	-.0900	-.0860	-.0630
.177			-.1820				
.229	.0060						
.246		-.1050					
.250				-.2130	-.1760	-.1540	-.1500
.362	-.0350						
.400				-.2740	-.2400		-.1950
.402			-.2470				
.497	-.0870						
.550				-.2960	-.2760		
.565			-.2680				
.600							-.2500
.650						-.2630	
.700	-.1700				-.2840		
.725				-.2870			
.750						-.2740	-.2630
.760			-.2550				
.775				-.2850	-.2740		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.2280				
.834	-.1800						
.850				-.2690	-.2690	-.2660	
.857			-.1870				
.865	-.1230						
.900	-.0880			-.2350			-.2300
.905			-.1400				
.950				-.2020	-.2560	-.2550	
.953			-.0910				
.965	.0140						

MACH (2) = 2.000 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0300	-.0420	.3580	.9140	.8390	.8470	.7700
.050				-.0320	.0240	.0470	.0860
.081			-.0920				
.086		-.0170					
.094	-.0250						
.150				-.1580	-.1060	-.1010	-.0820
.177			-.2060				
.229	-.0260						
.246		-.1330					
.250				-.2290	-.1900	-.1670	-.1650
.362	-.0610						
.400				-.2840	-.2510		-.2060
.402			-.2560				
.497	-.1130						
.550				-.3030	-.2830		
.565			-.2740				
.600							-.2570
.650						-.2700	
.700	-.1920				-.2840		
.725				-.2930			
.750						-.2800	-.2730
.760			-.2530				
.775				-.2920	-.2770		
.808			-.2160				
.834	-.1830						
.850				-.2720	-.2740	-.2710	
.857			-.1970				
.865	-.1230						
.900	-.0960			-.2410			-.2430
.905			-.1680				
.950				-.2070	-.2530	-.2640	
.953			-.1470				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.965	-.0140					

MACH (2) = 2.000 BETAT (4) = -.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.1260	-.1340	.2240	.7730	.7130	.6620
	.050				-.0840	-.0310	-.0010
	.081			-.1460			
	.086		-.0900				
	.094	-.0810					
	.150			-.1940	-.1430	-.1350	-.1160
	.177		-.2320				
	.229	-.0930					
	.246		-.1690				
	.250			-.2500	-.2160	-.1930	-.1880
	.362	-.1140					
	.400			-.2930	-.2680		-.2260
	.402		-.2580				
	.497	-.1450					
	.550			-.3040	-.2920		
	.565		-.2510				
	.600						-.2700
	.650					-.2790	
	.700	-.2010			-.2870		
	.725			-.2960			
	.750					-.2830	-.2850
	.760		-.2290				
	.775			-.2850	-.2870		
	.808		-.2080				
	.834	-.1520					
	.850			-.2830	-.2880	-.2770	
	.857		-.2040				
	.865	-.1010					
	.900	-.0800		-.2800			-.2620
	.905		-.1920				
	.950			-.2720	-.2670	-.2720	
	.953		-.1620				
	.965	-.0370					

MACH (2) = 2.000 BETAT (5) = 4.000

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.1920	-.1920	.0660	.6120	.5990	.6110
	.050				-.1520	-.0860	-.0480
	.081			-.1980			
	.086		-.1300				
	.094	-.1410					

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 4.000

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2320	-.1790	-.1610	-.1480
.177			-.2410				
.229	-.1340						
.246		-.1750					
.250				-.2770	-.2420	-.2150	-.2090
.362	-.1130						
.400				-.2930	-.2840		-.2420
.402			-.2380				
.497	-.1390						
.550				-.2970	-.2990		
.565			-.2370				
.600							-.2690
.650						-.2670	
.700	-.1880				-.2890		
.725				-.2790			
.750						-.2760	-.2700
.760			-.1920				
.775				-.2490	-.2860		
.808			-.1830				
.834	-.1130						
.850				-.2190	-.2750	-.2790	
.857			-.1810				
.865	-.1170						
.900	-.1080			-.2070			-.2690
.905			-.1640				
.950				-.1840	-.2480	-.2630	
.953			-.1360				
.965	-.0760						

MACH (2) = 2.000 BETAT (6) = 6.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2060	-.2310	-.0420	.4620	.5410	.5600	.4770
.050				-.1850	-.1180	-.0780	-.0560
.081			-.2190				
.086		-.1590					
.094	-.1530						
.150				-.2540	-.2040	-.1830	-.1700
.177			-.2210				
.229	-.1450						
.246		-.1560					
.250				-.2830	-.2590	-.2320	-.2230
.362	-.1100						
.400				-.2810	-.2940		-.2520
.402			-.2190				
.497	-.1340						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1251

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2760	-.2850		
.565			-.2260				
.600							-.2450
.650						-.2540	
.700	-.1810				-.2830		
.725				-.2380			
.750						-.2630	-.2580
.760			-.1920				
.775				-.2170	-.2760		
.808			-.1830				
.834	-.1170						
.850				-.2020	-.2610	-.2630	
.857			-.1760				
.865	-.1210						
.900	-.1110			-.1940			-.2340
.905			-.1500				
.950				-.1790	-.2160	-.2420	
.953			-.1190				
.965	-.0770						

MACH (2) = 2.000 BETAT (7) = 8.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2140	-.2420	-.1120	.3520	.6080	.6320	.5390
.050				-.2070	-.1070	-.0590	-.0310
.081			-.1950				
.086		-.1980					
.094	-.1710						
.150				-.2580	-.1970	-.1710	-.1540
.177			-.1910				
.229	-.1570						
.246		-.1710					
.250				-.2450	-.2520	-.2250	-.2140
.362	-.1100						
.400				-.2480	-.2810		-.2450
.402			-.2100				
.497	-.1350						
.550				-.2400	-.2960		
.565			-.2080				
.600							-.2710
.650						-.2670	
.700	-.1780				-.2840		
.725				-.2270			
.750						-.2760	-.2750
.760			-.1700				
.775				-.1800	-.2800		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU22)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1490				
.834	-.0850						
.850				-.1470	-.2660	-.2780	
.857			-.1290				
.865	-.0720						
.900	-.0550			-.1280			-.2740
.905			-.1030				
.950				-.1160	-.2290	-.2600	
.953			-.0820				
.965	-.0310						

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU23) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.400

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0970	.0750	.3530	.7500	.7600	.7460	.7230
.050				.2850	.3930	.4280	.4940
.081			.2210				
.086		.1500					
.094	.1710						
.150				.0800	.1180	.1090	.1580
.177			.0760				
.229	.1200						
.246		.0540					
.250				-.0330	-.0270	.0220	.0030
.362	.0740						
.400				-.1530	-.1450		-.0870
.492			-.1260				
.497	.0130						
.550				-.2020	-.2170		
.565			-.1290				
.600							-.2320
.650						-.2530	
.700	-.0540				-.2390		
.725				.0040			
.750						-.2650	-.2690
.760			.0780				
.775				.0490	-.2410		
.808			.1240				
.834	.1830						
.850				.1010	-.0540	-.2300	
.857			.1580				
.865	.1130						
.910	.1450			.1370			-.1890
.915			.1820				
.950				.1880	.0430	-.1640	
.953			.1950				
.965	.1700						

MACH (1) = 1.555 BETAT (2) = -6.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0640	.0760	.2850	.6870	.6690	.6720	.6420
.050				.2660	.3640	.4090	.4620
.081			.2180				
.086		.1270					
.094	.1400						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.360

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0650	.1000	.1020	.1430
.177			.0730				
.229	.1130						
.246		.0290					
.250				-.0430	-.0370	.0100	-.0030
.362	.0530						
.400				-.1620	-.1550		-.0900
.402			-.1240				
.497	.0100						
.550				-.2030	-.2160		
.565			-.1420				
.600							-.2410
.650						-.2540	
.700	-.0670				-.2360		
.725				-.0220			
.750						-.2590	-.2770
.760				.0650			
.775				.0310	-.2340		
.808			.1010				
.834	.1590						
.850				.0820	-.0720	-.2250	
.857			.1190				
.865	.0850						
.900	.1140			.1160			-.1930
.905			.1350				
.950				.1530	.0420	-.1610	
.953			.1500				
.965	.1290						

MACH (1) = 1.555 BETAT (3) = -4.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0370	.0500	.2290	.6120	.6000	.5830	.5610
.050				.2610	.3510	.3920	.4360
.081			.1940				
.086		.0890					
.094	.1090						
.150				.0740	.1000	.0950	.1380
.177			.0760				
.229	.0860						
.246		.0360					
.250				-.0320	-.0330	.0130	-.0060
.362	.0510						
.400				-.1520	-.1430		-.0990
.402			-.1300				
.497	-.0080						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1205

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2030	-.2130		
.565			-.1450				
.600							-.2480
.650						-.2480	
.700	-.0770				-.2350		
.725				-.0190			
.750						-.2530	-.2780
.760			.0530				
.775				.0330	-.2340		
.808			.0850				
.834	.1420						
.850				.0840	-.0530	-.2230	
.857			.0960				
.865	.0580						
.900	.0840			.1070			-.2110
.905			.1060				
.950				.1390	.0540	-.1570	
.953			.1250				
.965	.1030						

MACH (1) = 1.555 BETAT (4) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0430	.0030	.1300	.4880	.4650	.4330	.3950
.050				.2490	.3190	.3410	.3680
.081			.1550				
.086		.0650					
.094	.0600						
.150				.0610	.0850	.0740	.1050
.177			.0620				
.229	.0710						
.246		.0040					
.250				-.0360	-.0390	-.0040	-.0190
.362	.0380						
.400				-.1540	-.1440		-.1070
.402			-.1360				
.497	-.0480						
.550				-.1990	-.2120		
.565			-.1410				
.600							-.2460
.650						-.2430	
.700	-.0420				-.2330		
.725				-.0100			
.750						-.2480	-.2890
.760			.0320				
.775				.0430	-.2060		

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0470				
.834	.1100						
.850				.0780	-.0100	-.2130	
.857			.0520				
.865	.0060						
.900	.0390			.0750			-.2090
.905			.0590				
.950				.0860	.1010	-.0450	
.953			.0710				
.965	.0480						

MACH (1) = 1.555 BETAT (5) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1010	-.0270	.0770	.3730	.3510	.3090	.3420
.050				.2130	.2600	.2920	.3830
.081			.1310				
.086		.0260					
.094	.0350						
.150				.0500	.0470	.1140	.1330
.177			.0600				
.229	.0420						
.246		-.0060					
.250				-.0410	-.0480	.0530	.0220
.362	.0280						
.400				-.1470	-.1110		-.0760
.402			-.1280				
.497	-.0560						
.550				-.1860	-.1550		
.565			-.1390				
.600							-.2210
.650						-.2010	
.700	-.0460				-.1790		
.725				.0420			
.750						-.2050	-.2560
.760			.0110				
.775				.0900	-.0200		
.808			.0260				
.834	.0840						
.850				.0970	.0710	-.1280	
.857			.0400				
.865	-.0300						
.900	-.0190			.0810			-.1660
.905			.0500				
.950				.0860	.1600	.0790	
.953			.0660				

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1207

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	.965	.0090					

MACH (1) = 1.555 BETAT (6) = 8.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	.000	-.1750	.0380	.0760	.3440	.2870	.2360
	.050				.2440	.2700	.3490
	.081			.1640			
	.086		.0610				
	.094	.0110					
	.150			.0840	.0630	.1100	.1400
	.177		.1200				
	.229	.0970					
	.246		.0240				
	.250			.0070	-.0170	.0580	.0330
	.362	.0740					
	.400			-.1090	-.0860		-.0580
	.402		-.0900				
	.497	-.0130					
	.550			-.1450	-.1410		
	.565		-.0930				
	.600						-.2080
	.650					-.1760	
	.700	.0000			-.0200		
	.725			.0470			
	.750					-.1520	-.2420
	.760		.0360				
	.775			.0790	.0310		
	.808		.0320				
	.834	.1140					
	.850			.0770	.0720	.0590	
	.857		.0250				
	.865	-.0220					
	.900	-.0140		.0520			-.0570
	.905		.0310				
	.950			.0570	.1480	.1430	
	.953		.0450				
	.965	-.0050					

MACH (2) = 2.000 BETAT (1) = -8.380

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	.000	.0480	.1630	.4160	.8660	.8660	.8730
	.050				.2860	.4250	.4980
	.081			.2350			
	.086		.1960				
	.094	.1690					

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.380

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.1070	.1860	.2150	.2590
.177			.0970				
.229	.1680						
.246		.0990					
.250				.0010	.0440	.0990	.1200
.362	.1160						
.400				-.0910	-.0740		.0310
.402			-.0530				
.497	.0480						
.550				-.1270	-.1250		
.565			-.0870				
.600							-.1010
.650						-.1240	
.700	-.0150				-.1410		
.725				-.1510			
.750						-.1380	-.1400
.760			.0270				
.775				-.0300	-.1390		
.808			.0570				
.834	.1420						
.850				.0470	-.1190	-.1210	
.857			.0810				
.865	.1530						
.900	.1800			.0690			-.0940
.905			.1290				
.950				.0770	-.0580	-.0870	
.953			.1740				
.965	.1950						

MACH (2) = 2.000 BETAT (2) = -6.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0070	.1170	.3910	.7830	.7810	.7830	.8110
.050				.2820	.3830	.4370	.5270
.081			.2120				
.086		.1610					
.094	.1350						
.150				.1150	.1590	.1770	.2350
.177			.0870				
.229	.1330						
.246		.0780					
.250				.0150	.0270	.0780	.0950
.362	.1000						
.400				-.0900	-.0760		.0050
.402			-.0520				
.497	.0310						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1290	-.1300		
.565			-.0980				
.600							-.1160
.650						-.1330	
.700	-.0140				-.1430		
.725			-.1400				
.750						-.1470	-.1520
.760			-.0010				
.775				-.0270	-.1410		
.808			.0310				
.834	.1120						
.850				.0420	-.1220	-.1270	
.857			.0800				
.865	.0980						
.900	.1330			.0630			-.1160
.905			.1390				
.950				.0730	-.0600	-.0930	
.953			.1830				
.965	.1720						

MACH (2) = 2.000 BETAT (3) = -4.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0170	.0780	.3760	.7410	.6770	.6970	.7280
.050				.2760	.3380	.4130	.4750
.081			.2220				
.086		.1370					
.094	.1130						
.150				.1000	.1380	.1640	.2040
.177			.0880				
.229	.1170						
.246		.0860					
.250				-.0050	.0220	.0680	.0750
.362	.0980						
.400				-.0960	-.0760		-.0050
.402			-.0630				
.497	.0390						
.550				-.1300	-.1310		
.565			-.0990				
.600							-.1220
.650						-.1350	
.700	-.0310				-.1420		
.725				-.1380			
.750						-.1480	-.1570
.760			.0040				
.775				-.0430	-.1410		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			.0360				
.834	.1040						
.850				.0290	-.1230	-.1300	
.857			.0710				
.865	.0910						
.900	.1250			.0530			-.1210
.905			.1250				
.950				.0710	-.0420	-.0940	
.953			.1630				
.965	.1490						

MACH (2) = 2.000 BETAT (4) = -1.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0550	.0300	.2680	.6320	.5500	.5290	.5480
.050				.2220	.2910	.3300	.3760
.081			.1610				
.086		.1010					
.094	.0770						
.150				.0780	.1110	.1200	.1490
.177			.0710				
.229	.0810						
.246		.0590					
.250				-.0060	.0010	.0380	.0390
.362	.0750						
.400				-.0860	-.0880		-.0270
.402			-.0590				
.497	.0130						
.550				-.1280	-.1330		
.565			-.0900				
.600							-.1290
.650						-.1390	
.700	-.0300				-.1460		
.725				-.1350			
.750						-.1460	-.1680
.760			-.0100				
.775				-.0560	-.1430		
.808			.0230				
.834	.0790						
.850				.0130	-.1220	-.1260	
.857			.0570				
.865	.0490						
.900	.0720			.0370			-.1260
.905			.0870				
.950				.0650	-.0560	-.0870	
.953			.1030				

AMES 97-707 1A9 C2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = -.170

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0890						

MACH (2) = 2.000 BETAT (5) = 3.930

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0050	.0060	.1930	.4920	.4370	.4060	.3950
.050				.1790	.2420	.2930	.3190
.081			.1380				
.086		.0680					
.094	.0290						
.150				.0600	.0810	.0960	.1170
.177			.0700				
.229	.0590						
.246		.0490					
.250				-.0050	-.0160	.0200	.0190
.362	.0770						
.400				-.0890	-.0880		-.0350
.402			-.0630				
.497	.0090						
.550				-.1320	-.1310		
.565			-.1030				
.600							-.1310
.650						-.1390	
.700	-.0510				-.1440		
.725				-.1350			
.750						-.1450	-.1710
.760			-.0240				
.775				-.0610	-.1440		
.808			.0130				
.834	.0540						
.850				.0000	-.1270	-.1260	
.857			.0370				
.865	.0210						
.900	.0380			.0250			-.1320
.905			.0570				
.950				.0580	-.0500	-.0880	
.953			.0640				
.965	.0460						

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0260	-.0170	.1670	.4200	.3760	.3360	.3380
.050				.1550	.2110	.2510	.2820
.081			.1230				
.086		.0620					
.094	-.0010						

AMES 97-757 1A9 O2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				.0480	.0680	.0720	.1030
.177			.0680				
.229	.0590						
.246		.0370					
.250				-.0110	-.0240	.0030	.0200
.362	.0740						
.400				-.0920	-.0970		-.0420
.402			-.0670				
.497	.0020						
.550				-.1340	-.1300		
.565			-.1040				
.600							-.1360
.650						-.1410	
.700	-.0550				-.1450		
.725				-.1350			
.750						-.1480	-.1760
.760			-.0220				
.775				-.0570	-.1450		
.808			.0130				
.834	.0570						
.850				.0000	-.1270	-.1270	
.857			.0310				
.865	.0180						
.900	.0310			.0270			-.1360
.905			.0440				
.950				.0580	-.0140	-.0900	
.953			.0460				
.965	.0320						

MACH (2) = 2.000 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0650	-.0290	.1550	.3680	.3210	.2740	.3700
.050				.1390	.1910	.2160	.3380
.081			.1180				
.086		.0520					
.094	-.0150						
.150				.0410	.0480	.0570	.1390
.177			.0620				
.229	.0610						
.246		.0300					
.250				-.0170	-.0370	.0190	.0540
.362	.0640						
.400				-.0990	-.0920		-.0160
.402			-.0680				
.497	-.0040						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1213

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU23)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550					-.1280	-.1290	
.565			-.0950				
.600							-.1180
.650						-.1210	
.700	-.0550				-.1330		
.725				-.1370			
.750						-.1270	-.1580
.760			-.0050				
.775				-.0410	-.1220		
.808			.0240				
.834	.0710						
.850				.0050	-.1000	-.1020	
.857			.0290				
.865	.0210						
.900	.0310			.0280			-.1140
.905			.0360				
.950				.0550	.0500	-.0630	
.953			.0330				
.965	.0260						

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU24) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDDLK = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0830	.1230	.4170	.8090	.7810	.7930	.7710
.050				.1600	.2640	.3120	.3880
.081			.1190				
.086		.1000					
.094	.1110						
.150				-.0260	.0230	.0220	.0610
.177			-.0460				
.229	.0730						
.246		-.0230					
.250				-.1490	-.1140	-.0830	-.0840
.362	.0100						
.400				-.2420	-.2340		-.1710
.402			-.2000				
.497	-.0500						
.550				-.2780	-.3050		
.565			-.2090				
.600							-.2930
.650						-.3220	
.700	-.1290				-.3170		
.725				-.1400			
.750						-.3320	-.3200
.760			-.0450				
.775				-.0620	-.3180		
.808			.0190				
.834	.0910						
.850				-.0330	-.2450	-.3040	
.857			.0730				
.865	.0630						
.900	.0890			.0000			-.2470
.905			.1140				
.950				.0460	-.0600	-.2530	
.953			.1440				
.965	.1170						

MACH (1) = 1.555 BETAT (2) = -6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0590	.0880	.3370	.7610	.7200	.7390	.7080
.050				.1280	.2450	.2950	.3690
.081			.1100				
.086		.0790					
.094	.0780						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0370	.0140	.0110	.0540
.177			-.0420				
.229	.0480						
.246		-.0330					
.250				-.1550	-.1270	-.0890	-.0890
.362	-.0050						
.400				-.2330	-.2370		-.1760
.402			-.1950				
.497	-.0520						
.550				-.2700	-.2970		
.565			-.2040				
.600							-.2970
.650						-.3220	
.700	-.1410				-.3100		
.725				-.1620			
.750						-.3320	-.3230
.760			-.0460				
.775				-.0590	-.3050		
.808			.0090				
.834	.0550						
.850				-.0300	-.2490	-.3000	
.857			.0530				
.865	.0370						
.900	.0580			.0010			-.2470
.905			.0810				
.950				.0440	-.0650	-.2460	
.953			.1050				
.965	.0780						

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0040	.0580	.2940	.6460	.6440	.6770	.6490
.050				.1120	.2120	.2770	.3420
.081			.0850				
.086		.0500					
.094	.0380						
.150				-.0390	-.0020	.0020	.0420
.177			-.0390				
.229	.0290						
.246		-.0340					
.250				-.1290	-.1270	-.0950	-.0990
.362	-.0140						
.400				-.2230	-.2250		-.1840
.402			-.1930				
.497	-.0600						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2650	-.2850		
.565			-.2080				
.600							-.3020
.650						-.3160	
.700	-.1500				-.2990		
.725				-.1520			
.750						-.3230	-.3270
.760			-.0510				
.775				-.0660	-.2960		
.808			.0020				
.834	.0380						
.850				-.0310	-.2310	-.2910	
.857			.0390				
.865	.0020						
.900	.0290			-.0010			-.2540
.905			.0540				
.950				.0380	-.0630	-.2340	
.953			.0710				
.965	.0510						

MACH (1) = 1.555 BETAT (4) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1000	-.0070	.2050	.5310	.5170	.5330	.5210
.050				.1100	.2010	.2360	.2840
.081			.0670				
.086		.0290					
.094	-.0300						
.150				-.0430	-.0120	-.0200	.0120
.177			-.0320				
.229	.0230						
.246		-.0430					
.250				-.1220	-.1310	-.0960	-.1130
.362	-.0160						
.400				-.2200	-.2200		-.1870
.402			-.1970				
.497	-.0900						
.550				-.2620	-.2790		
.565			-.2070				
.600							-.3090
.650						-.3120	
.700	-.1210				-.2950		
.725				-.1290			
.750						-.3140	-.3350
.760			-.0510				
.775				-.0640	-.2920		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOUR24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.150

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0150				
.834	.0050						
.850				-.0140	-.1560	-.2810	
.857			.0030				
.865	-.0400						
.900	-.0140			.0120			-.2720
.905			.0110				
.950				.0370	-.0440	-.2260	
.953			.0230				
.965	.0000						

MACH (1) = 1.555 BETAT (5) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1500	-.0500	.1380	.4370	.4120	.5480	.5190
.050				.0880	.1660	.2720	.2950
.081			.0520				
.086		.0000					
.094	-.0540						
.150				-.0440	-.0240	.0120	.0280
.177			-.0250				
.229	-.0080						
.246		-.0500					
.250				-.1260	-.0770	-.0580	-.0910
.362	-.0260						
.400				-.2090	-.1750		-.1670
.402			-.1840				
.497	-.0940						
.550				-.2120	-.2290		
.565			-.1950				
.600							-.2850
.650						-.2690	
.700	-.1050				-.2470		
.725				-.0290			
.750						-.2740	-.3120
.760			-.0090				
.775				.0120	-.2270		
.808			.0200				
.834	.0040						
.850				.0440	-.0480	-.2360	
.857			.0250				
.865	-.0540						
.900	-.0090			.0420			-.2310
.905			.0260				
.950				.0510	.0680	-.0800	
.953			.0360				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0310						

MACH (1) = 1.555 BETAT (6) = 5.980

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1830	-.0730	.1190	.4740	.4880	.4690	.4310
.050				.1330	.2190	.2170	.2380
.081			.0900				
.086		-.0150					
.094	-.0750						
.150				.0060	.0120	-.0150	-.0040
.177			.0220				
.229	-.0120						
.246		-.0600					
.250				-.0700	-.0990	-.0840	-.1150
.362	-.0300						
.400				-.1680	-.1730		-.1810
.402			-.1400				
.497	-.0940						
.550				-.1730	-.2320		
.565			-.1000				
.600							-.2910
.650						-.2730	
.700	-.0140				-.2380		
.725				-.0050			
.750						-.2780	-.3180
.760			.0100				
.775				.0160	-.0880		
.808			.0050				
.834	.0670						
.850				.0310	-.0020	-.1640	
.857			.0060				
.865	-.0200						
.900	.0010			.0190			-.2220
.905			.0110				
.950				.0250	.0800	-.0280	
.953			.0190				
.965	.0030						

MACH (1) = 1.555 BETAT (7) = 8.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2120	.0070	.1900	.4390	.4010	.3620	.3880
.050				.1140	.1650	.1830	.2400
.081			.0980				
.086		.0430					
.094	-.0640						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0030	-.0160	.0010	.0030
.177			.0380				
.229	.0460						
.246		-.0100					
.250				-.0770	-.1110	-.0550	-.1020
.362	.0230						
.400				-.1670	-.1730		-.1660
.402			-.1400				
.497	-.0320			-.2000	-.2090		
.550							
.565		-.1540					
.600							-.2770
.650						-.2540	
.700	-.0650				-.2210		
.725				-.0230			
.750						-.2570	-.3110
.760			-.0190				
.775				.0130	-.0740		
.808			-.0210				
.834	.0350						
.850				.0290	-.0010	-.1660	
.857			-.0210				
.865	-.0540						
.900	-.0390			.0140			-.2280
.905			-.0210				
.950				.0120	.0690	-.0030	
.953			-.0090				
.965	-.0440						

MACH (2) = 2.000 BETAT (1) = -8.310

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0460	.1660	.4460	.9290	.8940	.9230	.9230
.050				.2360	.3290	.3940	.4570
.081			.1330				
.086		.1430					
.094	.0870						
.150				.0340	.1200	.1440	.1830
.177			-.0040				
.229	.1070						
.246		.0430					
.250				-.0720	-.0070	.0270	.0420
.362	.0650						
.400				-.1530	-.1190		-.0360
.402			-.1090				
.497	.0020						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.310		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.550				-.1760	-.1800		
		.565			-.1370				
		.600							-.1450
		.650						-.1700	
		.700	-.0650				-.1990		
		.725				-.1900			
		.750						-.1820	-.1710
		.760			-.0460				
		.775				-.1460	-.2020		
		.808			-.0200				
		.834	.0620						
		.850				-.0280	-.1870	-.1690	
		.857			-.0070				
		.865	.0880						
		.900	.1230			-.0070			-.1470
		.905			.0290				
		.950				.0000	-.1500	-.1430	
		.953			.0810				
		.965	.1480						
MACH (2) = 2.000 BETAT (2) = -6.270		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	.0090	.1200	.3770	.8900	.8260	.8290	.8590
		.050				.2050	.3010	.3400	.4340
		.081			.1170				
		.086		.1130					
		.094	.0560						
		.150				.0140	.0830	.1150	.1710
		.177			-.0030				
		.229	.0740						
		.246		.0200					
		.250				-.0750	-.0390	.0080	.0310
		.362	.0460						
		.400				-.1540	-.1350		-.0500
		.402			-.1020				
		.497	-.0160						
		.550				-.1850	-.1860		
		.565			-.1380				
		.600							-.1560
		.650						-.1780	
		.700	-.0640				-.2010		
		.725				-.1940			
		.750						-.1900	-.1870
		.760			-.0610				
		.775				-.1170	-.2010		

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1221

AMES 97-707 IA9 ORA + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0350				
.834	.0430						
.850				-.0290	-.1840	-.1860	
.857			-.0110				
.865	.0410						
.900	.0670			-.0070			-.1560
.905			.0310				
.950				.0000	-.1450	-.1510	
.953			.0820				
.965	.1090						

MACH (2) = 2.000 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0180	.0760	.3590	.7290	.7390	.7570	.7820
.050				.1620	.2450	.3110	.3860
.081			.1120				
.086		.0800					
.094	.0310						
.150				-.0010	.0520	.0930	.1380
.177			-.0080				
.229	.0470						
.246		.0110					
.250				-.0840	-.0600	-.0080	.0090
.362	.0290						
.400				-.1560	-.1410		-.0730
.402			-.1170				
.497	-.0180						
.550				-.1790	-.1900		
.565			-.1470				
.600							-.1710
.650						-.1900	
.700	-.0810				-.2050		
.725				-.1880			
.750						-.2020	-.1990
.760			-.0670				
.775				-.1190	-.2040		
.808			-.0430				
.834	.0290						
.850				-.0290	-.1840	-.1910	
.857			-.0200				
.865	.0290						
.900	.0580			-.0020			-.1740
.905			.0200				
.950				.0080	-.1430	-.1600	
.953			.0670				

AMES 97-757 IA9 O2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -4.230	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
			.965	.0910					
MACH (2) = 2.000	BETAT (4) = -.160	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
			.000	-.0350	.0080	.2620	.6250	.5300	.5620
			.050			.1380	.1770	.2200	.2890
			.081		.0760				
			.086		.0490				
			.094	.0170					
			.150			-.0150	.0250	.0430	.0790
			.177		-.0120				
			.229	.0110					
			.246		-.0080				
			.250			-.0850	-.0710	-.0390	-.0310
			.362	.0100					
			.400			-.1500	-.1410		-.0980
			.402		-.1110				
			.497	-.0380					
			.550			-.1730	-.1840		
			.565		-.1360				
			.600						-.1840
			.650					-.1930	
			.700	-.0780			-.1930		
			.725			-.1820			
			.750					-.2020	-.2090
			.760		-.0730				
			.775			-.1160	-.1920		
			.808		-.0500				
			.834	.0120					
			.850			-.0570	-.1730	-.1860	
			.857		-.0260				
			.865	-.0060					
			.900	.0140		-.0330			-.1810
			.905		.0110				
			.950			-.0170	-.1100	-.1500	
			.953		.0400				
			.965	.0330					
MACH (2) = 2.000	BETAT (5) = 3.920	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
			.000	-.0690	-.0470	.1610	.4880	.4410	.4410
			.050			.0920	.1580	.1920	.2350
			.081		.0570				
			.086		.0000				
			.094	-.0360					

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.920

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0170	.0110	.0330	.0470
.177			-.0040				
.229	-.0150						
.246		-.0080					
.250				-.0770	-.0780	-.0390	-.0410
.362	.0120						
.400				-.1390	-.1440		-.0960
.402			-.1070				
.497	-.0380						
.550				-.1740	-.1770		
.565			-.1400				
.600							-.1740
.650						-.1860	
.700	-.0940				-.1880		
.725				-.1810			
.750						-.1890	-.2070
.760			-.0800				
.775				-.1220	-.1830		
.808			-.0550				
.834	-.0120						
.850				-.0660	-.1660	-.1680	
.857			-.0340				
.865	-.0310						
.900	-.0150			-.0450			-.1730
.905			-.0100				
.950				-.0240	-.1130	-.1340	
.953			.0060				
.965	-.0010						

MACH (2) = 2.000 BETAT (6) = 5.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0780	-.0780	.1110	.4050	.3810	.3800	.3910
.050				.0610	.1320	.1830	.2260
.081			.0430				
.086		-.0030					
.094	-.0590						
.150				-.0220	.0050	.0230	.0420
.177			-.0070				
.229	-.0130						
.246		-.0140					
.250				-.0770	-.0770	-.0490	-.0470
.362	.0080						
.400				-.1350	-.1420		-.0950
.402			-.1110				
.497	-.0450						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.1710	-.1760		
.565			-.1390				
.600							-.1760
.650						-.1800	
.700	-.0970				-.1820		
.725				-.1690			
.750						-.1840	-.2110
.760			-.0790				
.775				-.1120	-.1790		
.808			-.0500				
.834	-.0170						
.850				-.0610	-.1610	-.1640	
.857			-.0300				
.865	-.0350						
.900	-.0210			-.0390			-.1740
.905			-.0110				
.950				-.0130	-.0910	-.1330	
.953			-.0020				
.965	-.0130						

MACH (2) = 2.000 BETAT (7) = 8.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1040	-.1000	.0820	.3420	.3120	.3610	.4790
.050				.0470	.1150	.2530	.2890
.081			.0410				
.086		-.0010					
.094	-.0730						
.150				-.0260	-.0080	.0670	.0980
.177			-.0060				
.229	-.0080						
.246		-.0230					
.250				-.0730	-.0850	-.0140	-.0040
.362	.0010						
.400				-.1390	-.1430		-.0650
.402			-.1120				
.497	-.0530						
.550				-.1660	-.1440		
.565			-.1380				
.600							-.1560
.650						-.1540	
.700	-.0990				-.1530		
.725				-.1660			
.750						-.1590	-.1920
.760			-.0690				
.775				-.0920	-.1520		

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1225

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU24)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0380				
.834	-.0140						
.850				-.0360	-.1320	-.1420	
.857			-.0230				
.865	-.0320						
.900	-.0200			-.0070			-.1520
.905			-.0090				
.950				.0200	-.0270	-.1080	
.953			-.0050				
.965	-.0170						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU25) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0590	.1120	.4360	.8620	.8250	.8520	.8160
.050				.0810	.1380	.1640	.2510
.081			.0180				
.086		.0700					
.094	.0730						
.150				-.1250	-.0700	-.0550	-.0260
.177			-.1540				
.229	.0350						
.246		-.0850					
.250				-.2390	-.2010	-.1670	-.1640
.362	-.0330						
.400				-.3230	-.3030		-.2420
.402			-.2630				
.497	-.1040						
.550				-.3500	-.3690		
.565			-.2750				
.600							-.3430
.650						-.3780	
.700	-.1840				-.3900		
.725				-.3250			
.750						-.3830	-.3520
.760			-.1370				
.775				-.1360	-.3940		
.808			-.1030				
.834	.0230						
.850				-.1050	-.3750	-.3630	
.857			-.0450				
.865	.0240						
.900	.0540			-.0960			-.2640
.905			.0260				
.950				-.0760	-.1850	-.3050	
.953			.0880				
.965	.0830						

MACH (1) = 1.555 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0190	.0750	.3790	.8080	.7770	.8060	.7730
.050				.0650	.1270	.1480	.2350
.081			.0170				
.086		.0310					
.094	.0350						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1227

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1320	-.0790	-.0700	-.0330
.177			-.1550				
.229	.0020						
.246		-.1020					
.250				-.2420	-.2060	-.1740	-.1740
.362	-.0620						
.400				-.3200	-.3080		-.2480
.402			-.2640				
.497	-.1080						
.550				-.3410	-.3680		
.565			-.2660				
.600							-.3480
.650						-.3780	
.700	-.1970				-.3860		
.725				-.3150			
.750						-.3850	-.3540
.760			-.1370				
.775				-.1380	-.3880		
.808			-.1020				
.834	.0010						
.850				-.1010	-.3670	-.3640	
.857			-.0500				
.865	.0030						
.900	.0300			-.0880			-.2770
.905				.0040			
.950				-.0660	-.1760	-.3160	
.953			.0530				
.965	.0470						

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0400	.0290	.3480	.7500	.7250	.7570	.7270
.050				.0380	.1020	.1300	.2070
.081			-.0100				
.086		-.0030					
.094	-.0020						
.150				-.1470	-.0930	-.0810	-.0490
.177			-.1530				
.229	-.0270						
.246		-.1020					
.250				-.2440	-.2150	-.1860	-.1840
.362	-.0670						
.400				-.3060	-.3100		-.2570
.402			-.2540				
.497	-.1050						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.240

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.3250	-.3670		
.565			-.2650				
.600							-.3580
.650						-.3800	
.700	-.1990				-.3780		
.725				-.2950			
.750						-.3890	-.3670
.760			-.1400				
.775				-.1390	-.3700		
.808			-.0980				
.834	-.0200						
.850				-.1070	-.3450	-.3700	
.857			-.0480				
.865	-.0330						
.900	-.0080			-.0910			-.2630
.905			-.0050				
.950				-.0640	-.1530	-.3250	
.953			-.0330				
.965	.0170						

MACH (1) = 1.555 BETAT (4) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1360	-.0370	.2320	.5970	.6310	.6530	.6120
.050				-.0090	.0410	.0760	.1450
.081			-.0280				
.086		-.0100					
.094	-.0790						
.150				-.1430	-.1190	-.1160	-.0870
.177			-.1250				
.229	-.0360						
.246		-.0980					
.250				-.2210	-.2260	-.2090	-.2070
.362	-.0640						
.400				-.2820	-.3070		-.2790
.402			-.2480				
.497	-.1280						
.550				-.3170	-.3520		
.565			-.2590				
.600							-.3750
.650						-.3830	
.700	-.1850				-.3630		
.725				-.2030			
.750						-.3900	-.3840
.760			-.1210				
.775				-.1260	-.3560		

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1229

AMES 97-707 IA9 ORA + S3 + T9 UPPER WING

(RBOL25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.0760				
.834	-.0440						
.850				-.0980	-.3190	-.3660	
.857			-.0490				
.865	-.0720						
.900	-.0490			-.0760			-.3090
.905			-.0290				
.950				-.0440	-.1200	-.3100	
.953			-.0170				
.965	-.0270						

MACH (1) = 1.555 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2000	-.1660	.1740	.5840	.6100	.6350	.5920
.050				-.0380	.0620	.0680	.1380
.081			-.0360				
.086		-.0350					
.094	-.1160						
.150				-.1450	-.0830	-.1080	-.0860
.177			-.1070				
.229	-.0450						
.246		-.0910					
.250				-.2130	-.1910	-.1900	-.2050
.362	-.0670						
.400				-.2370	-.2720		-.2690
.402			-.2300				
.497	-.1220						
.550				-.2640	-.3140		
.565			-.2080				
.600							-.3540
.650						-.3550	
.700	-.1460				-.3160		
.725				-.1150			
.750						-.3570	-.3620
.760			-.0570				
.775				-.0640	-.3040		
.808			-.0250				
.834	.0110						
.850				-.0260	-.1690	-.3260	
.857			-.0100				
.865	-.0290						
.900	.0000			-.0090			-.2670
.905			-.0020				
.950				.0100	-.0190	-.2430	
.953			.0060				

AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	-.0030						
MACH (1) = 1.555 BETAT (6) = 5.990		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.2310	-.1840	.2460	.5830	.5210	.5110	.4830
		.050				-.0090	.0190	.0310	.0700
		.081			.0310				
		.086		-.0330					
		.094	-.1320						
		.150				-.1070	-.1140	-.1320	-.1170
		.177			-.0590				
		.229	-.0430						
		.246		-.0350					
		.250				-.1770	-.2120	-.2050	-.2280
		.362	-.0710						
		.400				-.2240	-.2790		-.2820
		.402			-.1590				
		.497	-.0260						
		.550				-.2330	-.2980		
		.565			-.1620				
		.600							-.3630
		.650						-.3530	
		.700	-.0650				-.2930		
		.725				-.0850			
		.750						-.3460	-.3570
		.760			-.0460				
		.775				-.0520	-.2620		
		.808			-.0380				
		.834	-.0060						
		.850				-.0200	-.0950	-.2950	
		.857			-.0360				
		.865	-.0540						
		.900	-.0440			-.0200			-.2930
		.905			-.0320				
		.950				-.0110	.0050	-.1380	
		.953			-.0260				
		.965	-.0390						
MACH (1) = 1.555 BETAT (7) = 8.040		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.2740	-.0970	.2080	.5100	.4060	.3980	.4530
		.050				-.0460	-.0230	-.0100	.0880
		.081			.0080				
		.086		.0320					
		.094	-.0420						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.040

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150					-.1160	-.1360	-.1390
.177			-.0460				-.1150
.229	.0200						
.246		-.0310					
.250				-.1710	-.2190	-.1870	-.2160
.362	-.0150						
.400				-.2350	-.2670		-.2710
.402			-.1840				
.497	-.0490						
.550				-.2610	-.2880		
.565			-.2100				
.600							-.3520
.650						-.3310	
.700	-.1360				-.2890		
.725				-.1230			
.750						-.3240	-.3470
.760		-.0830					
.775				-.0720	-.2530		
.808			-.0680				
.834	-.0360						
.850				-.0330	-.1140	-.2860	
.857			-.0670				
.865	-.0910						
.900	-.0810			-.0280			-.2850
.905			-.0650				
.950				-.0200	-.0070	-.1540	
.953			-.0570				
.965	-.0820						

MACH (2) = 2.000 BETAT (1) = -8.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0370	.1400	.4560	.9760	.9000	.9490	.9390
.050				.1520	.2540	.2980	.3500
.081			.0640				
.086		.0880					
.094	.0530						
.150				-.0270	.0540	.0730	.1030
.177			-.0780				
.229	.0550						
.246		-.0140					
.250				-.1270	-.0650	-.0290	-.0200
.362	.0260						
.400				-.2010	-.1580		-.0880
.402			-.1550				
.497	-.0340						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.290

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2320	-.2130		
.565			-.1790				
.600							-.1820
.650						-.2060	
.700	-.1060				-.2320		
.725				-.2380			
.750						-.2180	-.1990
.760			-.1150				
.775				-.2300	-.2380		
.808			-.0760				
.834	-.0330						
.850				-.1240	-.2290	-.2050	
.857			-.0630				
.865	.0190						
.900	.0630			-.0650			-.1700
.905			-.0520				
.950				-.0380	-.2010	-.1780	
.953			-.0250				
.965	.1220						

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0040	.0930	.3910	.9210	.8520	.8590	.8760
.050				.1280	.2340	.2550	.3280
.081			.0340				
.086		.0590					
.094	.0120						
.150				-.0450	.0230	.0460	.0930
.177			-.0950				
.229	.0190						
.246		-.0370					
.250				-.1400	-.0910	-.0500	-.0290
.362	-.0010						
.400				-.2140	-.1770		-.1010
.402			-.1630				
.497	-.0580						
.550				-.2440	-.2240		
.565			-.1890				
.600							-.1930
.650						-.2110	
.700	-.1110				-.2390		
.725				-.2460			
.750						-.2260	-.2140
.760			-.1290				
.775				-.2330	-.2430		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1030				
.834	-.0310						
.850				-.1120	-.2370	-.2150	
.857			-.0930				
.865	-.0090						
.900	.0220			-.0670			-.1890
.905			-.0680				
.950				-.0540	-.2090	-.1900	
.953			-.0250				
.965	.0680						

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0260	.0530	.3410	.8670	.7720	.7980	.8070
.050				.0940	.1840	.2260	.2870
.081			.0060				
.086		.0330					
.094	-.0220						
.150				-.0730	-.0060	.0250	.0660
.177			-.1040				
.229	-.0050						
.246		-.0530					
.250				-.1640	-.1090	-.0660	-.0520
.362	-.0220						
.400				-.2290	-.1870		-.1180
.402			-.1710				
.497	-.0610						
.550				-.2440	-.2310		
.565			-.1890				
.600							-.2060
.650						-.2220	
.700	-.1220				-.2490		
.725				-.2310			
.750						-.2370	-.2260
.760			-.1250				
.775				-.2040	-.2540		
.808			-.1000				
.834	-.0440						
.850				-.0990	-.2470	-.2300	
.857			-.0920				
.865	-.0220						
.900	.0040			-.0710			-.2000
.905			-.0620				
.950				-.0600	-.2240	-.2050	
.953			-.0180				

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.965	.0530					

MACH (2) = 2.000 BETAT (4) = -1.140

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.0650	-.0230	.2280	.5660	.6230	.6510
	.050				.0170	.0990	.1630
	.081			-.0230			.2220
	.086		-.0140				
	.094	-.0590					
	.150			-.1010	-.0620	-.0270	.0180
	.177		-.1010				
	.229	-.0440					
	.246		-.0680				
	.250			-.1590	-.1480	-.1080	-.0870
	.362	-.0440					
	.400			-.2000	-.2060		-.1480
	.402		-.1550				
	.497	-.0770					
	.550			-.2090	-.2370		
	.565		-.1750				
	.600						-.2240
	.650					-.2370	
	.700	-.1210			-.2450		
	.725			-.2110			
	.750					-.2480	-.2440
	.760		-.1190				
	.775			-.1460	-.2420		
	.808		-.1050				
	.834	-.0440					
	.850			-.1020	-.2230	-.2400	
	.857		-.0910				
	.865	-.0530					
	.900	-.0380		-.0820			-.2210
	.905		-.0640				
	.950			-.0700	-.1770	-.2200	
	.953		-.0340				
	.965	-.0080					

MACH (2) = 2.000 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.1030	-.0880	.1310	.4700	.4220	.4450
	.050				.0110	.0590	.0840
	.081			-.0150			.1390
	.086		-.0570				
	.094	-.0910					

AMES 97-707 IA9 OCA + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.0870	-.0620	-.0430	-.0240
.177			-.0710				
.229	-.0730						
.246		-.0560					
.250				-.1350	-.1390	-.1050	-.1080
.362	-.0360						
.400				-.1800	-.1860		-.1550
.402			-.1450				
.497	-.0710						
.550				-.2050	-.2140		
.565			-.1720				
.600							-.2190
.650						-.2210	
.700	-.1240				-.2240		
.725				-.2060			
.750						-.2300	-.2310
.760			-.1220				
.775				-.1430	-.2210		
.808			-.1050				
.834	-.0610						
.850				-.1060	-.2510	-.2160	
.857			-.0870				
.865	-.0690						
.900	-.0550			-.0870			-.2110
.905			-.0630				
.950				-.0750	-.1340	-.1850	
.953			-.0430				
.965	-.0340						

MACH (2) = 2.000 BETAT (6) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1600	-.1550	.0390	.3740	.3720	.5350	.5050
.050				-.0320	.0360	.1340	.1580
.081			-.0240				
.086		-.0630					
.094	-.1190						
.150				-.1010	-.0580	-.0130	-.0010
.177			-.0730				
.229	-.0740						
.246		-.0690					
.250				-.1410	-.1090	-.0830	-.0850
.362	-.0510						
.400				-.1880	-.1700		-.1360
.402			-.1510				
.497	-.0890						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU25)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.020

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2080	-.1890		
.565			-.1690				
.600							-.2070
.650						-.2070	
.700	-.1330				-.1980		
.725			-.1810				
.750						-.2130	-.2220
.760			-.1130				
.775				-.1180	-.1930		
.808			-.0820				
.834	-.0620						
.850				-.0660	-.1800	-.1990	
.857			-.0570				
.865	-.0710						
.900	-.0580			-.0460			-.1990
.905			-.0280				
.950				-.0350	-.1190	-.1680	
.953			-.0130				
.965	-.0380						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU26) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0300	.0470	.4500	.9090	.8590	.8740	.7720
.050				-.0470	.0200	.0050	.0480
.081			-.0750				
.086		.0320					
.094	.0480						
.150				-.2070	-.1570	-.1600	-.1550
.177			-.2430				
.229	-.0060						
.246		-.1340					
.250				-.3160	-.2720	-.2490	-.2580
.362	-.0610						
.400				-.3950	-.3610		-.3060
.402			-.3180				
.497	-.1320						
.550				-.4160	-.4180		
.565			-.3190				
.600							-.3820
.650						-.4200	
.700	-.2380				-.4330		
.725				-.4120			
.750						-.4160	-.3890
.760			-.1870				
.775				-.3340	-.4210		
.808			-.1680				
.834	-.0500						
.850				-.2760	-.4080	-.3980	
.857			-.1460				
.865	-.0100						
.900	.0220			-.1740			-.3400
.905			-.0950				
.950				-.0750	-.3020	-.3510	
.953			-.0270				
.965	.0540						

MACH (1) = 1.555 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0150	.0080	.4050	.8630	.7990	.8500	.7430
.050				-.0630	-.0030	.0140	.0550
.081			-.0830				
.086		-.0100					
.094	.0010						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2240	-.1730	-.1660	-.1630
.177			-.2560				
.229	-.0360						
.246		-.1490					
.250				-.3270	-.2820	-.2550	-.2670
.362	-.0990						
.400				-.4030	-.3680		-.3110
.402			-.3190				
.497	-.1420						
.550				-.4170	-.4210		
.565			-.3160				
.600							-.3880
.650						-.4240	
.700	-.2450				-.4400		
.725				-.4180			
.750						-.4240	-.3960
.760			-.1970				
.775				-.3230	-.4420		
.808			-.1830				
.834	-.0700						
.850				-.2250	-.4150	-.4070	
.857			-.1580				
.865	-.0350						
.900	-.0030			-.1310			-.3480
.905			-.1060				
.950				-.0780	-.3170	-.3660	
.953			-.0400				
.965	.0250						

MACH (1) = 1.555 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0850	-.0450	.3620	.8070	.7440	.7700	.7200
.050				-.0950	-.0460	-.0240	.0400
.081			-.1140				
.086		-.0470					
.094	-.0350						
.150				-.2400	-.1940	-.1900	-.1720
.177			-.2700				
.229	-.0780						
.246		-.1680					
.250				-.3380	-.3000	-.2710	-.2780
.362	-.1090						
.400				-.4030	-.3800		-.3240
.402			-.3120				
.497	-.1440						

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1239

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.220

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4070	-.4280		
.565			-.3160				
.600							-.3990
.650						-.4310	
.700	-.2460				-.4440		
.725				-.3900			
.750						-.4320	-.4080
.760			-.2060				
.775				-.2490	-.4460		
.808			-.1920				
.834	-.0760						
.850				-.1510	-.4190	-.4150	
.857			-.1580				
.865	-.0560						
.900	-.0290			-.1070			-.3580
.905			-.1040				
.950				-.0960	-.3200	-.3710	
.953			-.0420				
.965	-.0060						

MACH (1) = 1.555 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1900	-.1560	.2340	.6990	.6460	.6660	.6080
.050				-.1550	-.1010	-.0760	-.0140
.081			-.1550				
.086		-.0710					
.094	-.0930						
.150				-.2610	-.2280	-.2270	-.2080
.177			-.2480				
.229	-.0900						
.246		-.1630					
.250				-.3420	-.3180	-.3010	-.3050
.362	-.1090						
.400				-.3790	-.3890		-.3450
.402			-.3060				
.497	-.1560						
.550				-.3880	-.4340		
.565			-.3090				
.600							-.4120
.650						-.4390	
.700	-.2440				-.4400		
.725				-.3140			
.750						-.4400	-.4220
.760			-.2100				
.775				-.1940	-.4320		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1750				
.834	-.0620						
.850				-.1500	-.3850	-.4210	
.857			-.1280				
.865	-.0920						
.900	-.0750			-.1300			-.3720
.905			-.0800				
.950				-.1210	-.2840	-.3930	
.953			-.0480				
.965	-.0570						

MACH (1) = 1.555 BETAT (5) = 3.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2600	-.2640	.1550	.5770	.6350	.6590	.5900
.050				-.1880	-.0980	-.0890	-.0440
.081			-.1420				
.086		-.0920					
.094	-.1470						
.150				-.2710	-.2120	-.2210	-.2180
.177			-.2150				
.229	-.0950						
.246		-.1320					
.250				-.3070	-.3000	-.2890	-.3060
.362	-.0910						
.400				-.3240	-.3710		-.3440
.402			-.2770				
.497	-.1460						
.550				-.3300	-.4070		
.565			-.2470				
.600							-.4120
.650						-.4240	
.700	-.2130				-.4010		
.725				-.1900			
.750						-.4040	-.4150
.760			-.1470				
.775				-.1500	-.3840		
.808			-.1090				
.834	-.0370						
.850				-.1180	-.3300	-.4030	
.857			-.0710				
.865	-.0600						
.900	-.0430			-.0920			-.3640
.905			-.0440				
.950				-.0630	-.1320	-.3270	
.953			-.0230				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.960

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.965	-.0230					

MACH (1) = 1.555 BETAT (6) = 6.010

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.3210	-.2520	.1340	.5890	.5560	.5490
	.050				-.1910	-.1560	-.1540
	.081			-.1100			
	.086		-.1700				
	.094	-.1750					
	.150			-.2470	-.2500	-.2660	-.2590
	.177		-.1390				
	.229	-.0830					
	.246		-.0590				
	.250			-.2900	-.3220	-.3210	-.3390
	.362	-.0520					
	.400			-.3010	-.3850		-.3720
	.402		-.2220				
	.497	-.0610					
	.550			-.3000	-.3950		
	.565		-.2420				
	.600						-.4260
	.650					-.4190	
	.700	-.1490			-.3850		
	.725			-.1870			
	.750					-.4120	-.4170
	.760		-.1270				
	.775			-.1530	-.3460		
	.808		-.1010				
	.834	-.0590					
	.850			-.1100	-.1690	-.3980	
	.857		-.0890				
	.865	-.0990					
	.900	-.0830		-.0850			-.3760
	.905		-.0790				
	.950			-.0630	-.0920	-.3130	
	.953		-.0720				
	.965	-.0680					

MACH (1) = 1.555 BETAT (7) = 8.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
	.000	-.3440	-.1880	.0650	.4660	.4390	.4580
	.050				-.2070	-.1870	-.1730
	.081			-.0940			
	.086		-.1210				
	.094	-.0890					

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2630	-.2700	-.2650	-.2630
.177			-.1310				
.229	-.0160						
.246		-.0580					
.250				-.2820	-.3390	-.3170	-.3430
.362	-.0360						
.400				-.3040	-.3720		-.3730
.402			-.2400				
.497	-.0980						
.550				-.3190	-.3710		
.565			-.2780				
.600							-.4330
.650						-.4260	
.700	-.2170				-.3670		
.725				-.2150			
.750						-.4130	-.4220
.760			-.1580				
.775				-.1680	-.3320		
.808			-.1340				
.834	-.0850						
.850				-.1150	-.1930	-.3950	
.857			-.1230				
.865	-.1320						
.900	-.1190			-.0910			-.4030
.905			-.1000				
.950				-.0710	-.1440	-.3010	
.953			-.0860				
.965	-.1090						

MACH (2) = 2.000 BETAT (1) = -8.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0280	.0900	.4450	.9970	.9330	.9770	.9180
.050				.0710	.1620	.2060	.2540
.081			-.0040				
.086		.0550					
.094	.0650						
.150				-.0840	-.0120	.0060	.0270
.177			-.1410				
.229	.0380						
.246		-.0660					
.250				-.1730	-.1190	-.0840	-.0810
.362	-.0070						
.400				-.2380	-.1990		-.1350
.402			-.1990				
.497	-.0610						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.280

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2660	-.2410		
.565			-.2160				
.600							-.2100
.650						-.2340	
.700	-.1370				-.2570		
.725				-.2710			
.750						-.2440	-.2260
.760			-.1890				
.775				-.2660	-.2610		
.808			-.1400				
.834	-.1080						
.850				-.2340	-.2510	-.2330	
.857			-.1150				
.865	-.0420						
.900	.0020			-.1470			-.1790
.905			-.0920				
.950				-.1090	-.2250	-.2130	
.953			-.0700				
.965	.0850						

MACH (2) = 2.000 BETAT (2) = -6.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0040	.0330	.3770	.9430	.8810	.8890	.8630
.050				.0460	.1230	.1570	.2260
.081			-.0340				
.086		.0210					
.094	.0250						
.150				-.1090	-.0510	-.0240	.0090
.177			-.1510				
.229	-.0010						
.246		-.0900					
.250				-.1860	-.1500	-.1060	-.0960
.362	-.0300						
.400				-.2570	-.2210		-.1470
.402			-.2010				
.497	-.0860						
.550				-.2870	-.2530		
.565			-.2170				
.600							-.2220
.650						-.2410	
.700	-.1520				-.2660		
.725				-.2870			
.750						-.2540	-.2380
.760			-.1860				
.775				-.2740	-.2700		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1570				
.834	-.1160						
.850				-.2260	-.2600	-.2430	
.857			-.1550				
.865	-.0660						
.900	-.0370			-.1800			-.2030
.905			-.1460				
.950				-.1710	-.2420	-.2260	
.953			-.1240				
.965	.0340						

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0470	-.0290	.3420	.8910	.7990	.8280	.8040
.050				.0250	.0890	.1360	.1920
.081			-.0470				
.086		-.0150					
.094	-.0210						
.150				-.1180	-.0610	-.0370	-.0130
.177			-.1610				
.229	-.0300						
.246		-.0980					
.250				-.1990	-.1530	-.1160	-.1090
.362	-.0490						
.400				-.2610	-.2210		-.1630
.402			-.2160				
.497	-.0960						
.550				-.2850	-.2590		
.565			-.2250				
.600							-.2320
.650						-.2480	
.700	-.1650				-.2720		
.725				-.2810			
.750						-.2620	-.2490
.760			-.1860				
.775				-.2600	-.2770		
.808			-.1610				
.834	-.1210						
.850				-.2060	-.2670	-.2510	
.857			-.1560				
.865	-.0680						
.900	-.0350			-.1820			-.2290
.905			-.1450				
.950				-.1710	-.2500	-.2330	
.953			-.1220				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0260						

MACH (2) = 2.000 BETAT (4) = -.120

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1070	-.1030	.2170	.7580	.6840	.7080	.6890
.050				-.0340	.0370	.0760	.1320
.081			-.1060				
.086		-.0550					
.094	-.0580						
.150				-.1570	-.0960	-.0790	-.0550
.177			-.1940				
.229	-.0620						
.246		-.1260					
.250				-.2270	-.1840	-.1470	-.1410
.362	-.0830						
.400				-.2780	-.2430		-.1890
.402			-.2030				
.497	-.1130						
.550				-.2830	-.2750		
.565			-.2090				
.600							-.2490
.650						-.2620	
.700	-.1590				-.2850		
.725				-.2810			
.750						-.2750	-.2670
.760			-.1640				
.775				-.2510	-.2820		
.808			-.1530				
.834	-.0810						
.850				-.1770	-.2750	-.2660	
.857			-.1500				
.865	-.0760						
.900	-.0620			-.1430			-.2440
.905			-.1300				
.950				-.1100	-.2550	-.2560	
.953			-.0990				
.965	-.0290						

MACH (2) = 2.000 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1510	-.1690	.0880	.5780	.5500	.5870	.5730
.050				-.1190	-.0460	.0050	.0630
.081			-.1300				
.086		-.1040					
.094	-.1150						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.950

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.1840	-.1400	-.1230	-.0960
.177			-.1650				
.229	-.1090						
.246		-.1120					
.250				-.2270	-.2070	-.1780	-.1720
.362	-.0760						
.400				-.2450	-.2520		-.2090
.402			-.1890				
.497	-.1070						
.550				-.2470	-.2770		
.565			-.2040				
.600							-.2610
.650						-.2700	
.700	-.1570				-.2790		
.725				-.2150			
.750						-.2810	-.2780
.760			-.1620				
.775				-.1710	-.2740		
.808			-.1540				
.834	-.0940						
.850				-.1490	-.2670	-.2690	
.857			-.1460				
.865	-.1000						
.900	-.0900			-.1320			-.2630
.905			-.1220				
.950				-.1200	-.1930	-.2580	
.953			-.0970				
.965	-.0590						

MACH (2) = 2.000 BETAT (6) = 5.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1780	-.1900	.0010	.4850	.4800	.5430	.5160
.050				-.1360	-.0690	-.0210	.0330
.081			-.1290				
.086		-.1180					
.094	-.1350						
.150				-.1920	-.1610	-.1350	-.1130
.177			-.1420				
.229	-.1200						
.246		-.1030					
.250				-.2250	-.2190	-.1890	-.1840
.362	-.0780						
.400				-.2360	-.2570		-.2180
.402			-.1810				
.497	-.1060						

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2490	-.2710		
.565			-.1980				
.600							-.2640
.650						-.2700	
.700	-.1560				-.2720		
.725				-.2110			
.750						-.2730	-.2780
.760			-.1630				
.775				-.1760	-.2650		
.808			-.1520				
.834	-.0920						
.850				-.1510	-.2420	-.2650	
.857			-.1430				
.865	-.1010						
.900	-.0880			-.1340			-.2360
.905			-.1150				
.950				-.1200	-.1540	-.2540	
.953			-.0900				
.965	-.0600						

MACH (2) = 2.000 BETAT (7) = 8.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1880	-.2090	-.0650	.3580	.5650	.5920	.5640
.050				-.1440	-.0230	.0120	.0500
.081			-.1150				
.086		-.1420					
.094	-.1490						
.150				-.1780	-.1240	-.1120	-.0980
.177			-.1300				
.229	-.1280						
.246		-.0990					
.250				-.2010	-.1900	-.1690	-.1690
.362	-.0870						
.400				-.2110	-.2340		-.2040
.402			-.1870				
.497	-.1150						
.550				-.2170	-.2540		
.565			-.1990				
.600							-.2560
.650						-.2580	
.700	-.1630				-.2550		
.725				-.1980			
.750						-.2660	-.2720
.760			-.1300				
.775				-.1390	-.2460		

AMES 97-797 1A9 02A + S3 + T9 UPPER WING

(RBOU26)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1040				
.834	-.0860						
.850				-.1060	-.2280	-.2560	
.857			-.0840				
.865	-.0840						
.900	-.0600			-.0890			-.2540
.905			-.0570				
.950				-.0780	-.1460	-.2410	
.953			-.0410				
.965	-.0160						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU27) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 CRBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0260	.0130	.4310	.9370	.8360	.8210	.6960
.050				-.1030	-.1040	-.0990	-.0630
.081			-.1260				
.086		-.0010					
.094	.0450						
.150				-.2470	-.2160	-.2450	-.2320
.177			-.2890				
.229	-.0150						
.246		-.1590					
.250				-.3450	-.3170	-.3100	-.3160
.362	-.0710						
.400				-.4240	-.3920		-.3550
.402			-.3330				
.497	-.1350						
.550				-.4320	-.4400		
.565			-.3280				
.600							-.4100
.650						-.3900	
.700	-.2580				-.4170		
.725				-.4290			
.750						-.3940	-.4020
.760			-.2040				
.775				-.4020	-.3940		
.808			-.1770				
.834	-.0950						
.850				-.3460	-.3670	-.3940	
.857			-.1850				
.865	-.0360						
.900	.0020			-.2950			-.3760
.905			-.1410				
.950				-.2510	-.3060	-.3460	
.953			-.0820				
.965	.0390						

MACH (1) = 1.555 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0210	-.0330	.3950	.8630	.8170	.7760	.6580
.050				-.1250	-.1050	-.1160	-.0830
.081			-.1410				
.086		-.0330					
.094	-.0070						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -6.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2620	-.2280	-.2540	-.2400
.177			-.3020				
.229	-.0450						
.246		-.1740					
.250				-.3560	-.3310	-.3130	-.3260
.362	-.1100						
.400				-.4370	-.4040		-.3640
.402			-.3450				
.497	-.1560						
.550				-.4480	-.4470		
.565			-.3340				
.600							-.4220
.650						-.4060	
.700	-.2700				-.4320		
.725				-.4440			
.750						-.4070	-.4160
.760			-.2200				
.775				-.4240	-.4220		
.808			-.2010				
.834	-.0990						
.850				-.3900	-.3920	-.4070	
.857			-.1990				
.865	-.0480						
.900	-.0170			-.3160			-.3840
.905			-.1590				
.950				-.1990	-.3180	-.3670	
.953			-.0980				
.965	.0130						

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1090	-.0990	.3390	.7990	.7700	.7440	.6140
.050				-.1680	-.1190	-.1250	-.0980
.081			-.1730				
.086		-.0620					
.094	-.0390						
.150				-.2910	-.2420	-.2600	-.2520
.177			-.3260				
.229	-.0850						
.246		-.1950					
.250				-.3770	-.3420	-.3240	-.3350
.362	-.1200						
.400				-.4410	-.4120		-.3720
.402			-.3430				
.497	-.1650						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1251

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4490	-.4540		
.565			-.3290				
.600							-.4290
.650						-.4310	
.700	-.2730				-.4450		
.725				-.4610			
.750						-.4270	-.4380
.760			-.2280				
.775				-.4330	-.4400		
.808			-.2130				
.834	-.0960						
.850				-.2810	-.4220	-.4240	
.857			-.1940				
.865	-.0580						
.900	-.0290			-.1680			-.3990
.905			-.1490				
.950				-.0930	-.3290	-.3940	
.953			-.1010				
.965	-.0090						

MACH (1) = 1.555 BETAT (4) = -.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2100	-.2150	.1730	.6890	.6380	.6520	.5430
.050				-.2270	-.1690	-.1390	-.1210
.081			-.2160				
.086		-.1040					
.094	-.0920						
.150				-.3170	-.2830	-.2760	-.2670
.177			-.3200				
.229	-.1090						
.246		-.1970					
.250				-.3880	-.3650	-.3400	-.3470
.362	-.1280						
.400				-.4270	-.4260		-.3850
.402			-.3250				
.497	-.1710						
.550				-.4450	-.4570		
.565			-.3270				
.600							-.4120
.650						-.4110	
.700	-.2730				-.4500		
.725				-.3750			
.750						-.4200	-.4220
.760			-.2440				
.775				-.2050	-.4320		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.2260				
.834	-.0740						
.850				-.1740	-.4070	-.4090	
.857			-.1770				
.865	-.0870						
.900	-.0700			-.1460			-.4010
.905			-.1200				
.950				-.1400	-.3130	-.3530	
.953			-.0810				
.965	-.0590						

MACH (1) = 1.555 BETAT (5) = 3.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3050	-.2680	.0550	.5590	.6290	.6380	.5180
.050				-.2780	-.1820	-.1590	-.1430
.081			-.2020				
.086		-.1590					
.094	-.1570						
.150				-.3220	-.2840	-.2900	-.2790
.177			-.2520				
.229	-.1240						
.246		-.1600					
.250				-.3500	-.3590	-.3470	-.3570
.362	-.1050						
.400				-.3690	-.4170		-.3900
.402			-.2770				
.497	-.1610						
.550				-.3520	-.4150		
.565			-.2840				
.600							-.3950
.650						-.3990	
.700	-.2510				-.4140		
.725				-.2060			
.750						-.4090	-.4110
.760			-.1790				
.775				-.1630	-.4040		
.808			-.1400				
.834	-.0330						
.850				-.1380	-.3560	-.3830	
.857			-.1030				
.865	-.0690						
.900	-.0510			-.1160			-.3730
.905			-.0720				
.950				-.0930	-.2860	-.3270	
.953			-.0510				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0360						

MACH (1) = 1.555 BETAT (6) = 6.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3510	-.2700	.0560	.5430	.5400	.5380	.4250
.050				-.2720	-.2390	-.2120	-.1820
.081			-.1770				
.086		-.2100					
.094	-.1700						
.150				-.3160	-.3190	-.3250	-.3100
.177			-.1620				
.229	-.1030						
.246		-.1190					
.250				-.3470	-.3840	-.3750	-.3800
.362	-.0150						
.400				-.3240	-.4290		-.4100
.402			-.2460				
.497	-.0750						
.550				-.3200	-.4100		
.565			-.2710				
.600							-.3960
.650						-.4080	
.700	-.1900				-.4110		
.725				-.2340			
.750						-.4140	-.4160
.760			-.1700				
.775				-.1890	-.4010		
.808			-.1460				
.834	-.0760						
.850				-.1350	-.3360	-.3910	
.857			-.1290				
.865	-.1170						
.900	-.1040			-.1040			-.3590
.905			-.1100				
.950				-.0800	-.1900	-.3460	
.953			-.1010				
.965	-.0830						

MACH (1) = 1.555 BETAT (7) = 8.090

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3600	-.2240	.0060	.3960	.4240	.4710	.3880
.050				-.2900	-.2730	-.2330	-.2000
.081			-.1380				
.086		-.1300					
.094	-.1090						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.090

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.3080	-.3370	-.3320	-.3220
.177			-.1680				
.229	-.0320						
.246		-.1270					
.250				-.3180	-.3880	-.3750	-.3880
.362	-.0360						
.400				-.3240	-.4140		-.4170
.402			-.2630				
.497	-.1150						
.550				-.3360	-.4170		
.565			-.3000				
.600							-.4520
.650						-.4410	
.700	-.2430				-.3990		
.725				-.2500			
.750						-.4400	-.4500
.760			-.1910				
.775				-.2080	-.3610		
.808			-.1660				
.834	-.1050						
.850				-.1600	-.2300	-.4310	
.857			-.1420				
.865	-.1500						
.900	-.1370			-.1320			-.4350
.905			-.1250				
.950				-.1070	-.1710	-.3660	
.953			-.1150				
.965	-.1210						

MACH (2) = 2.000 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0430	.0600	.4540	1.0250	.9580	.9750	.9070
.050				.0420	.1120	.1420	.1860
.081			-.0270				
.086		.0420					
.094	.0470						
.150				-.1050	-.0390	-.0350	-.0170
.177			-.1630				
.229	.0320						
.246		-.0830					
.250				-.1930	-.1450	-.1150	-.1150
.362	-.0160						
.400				-.2570	-.2210		-.1620
.402			-.2240				
.497	-.0720						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1255

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2870	-.2570		
.565			-.2300				
.600							-.2250
.650						-.2460	
.700	-.1510				-.2710		
.725				-.2840			
.750						-.2580	-.2390
.760			-.2190				
.775				-.2760	-.2720		
.808			-.1820				
.834	-.1290						
.850				-.2480	-.2620	-.2500	
.857			-.1540				
.865	-.0620						
.900	-.0240			-.1970			-.1960
.905			-.1200				
.950				-.1590	-.2420	-.2230	
.953			-.0900				
.965	.0630						

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0190	.0130	.3940	.9960	.9050	.9080	.8710
.050				.0290	.0930	.1150	.1750
.081			-.0530				
.086		.0100					
.094	.0100						
.150				-.1170	-.0620	-.0540	-.0230
.177			-.1770				
.229	-.0020						
.246		-.1080					
.250				-.1980	-.1620	-.1280	-.1210
.362	-.0410						
.400				-.2640	-.2290		-.1680
.402			-.2260				
.497	-.0900						
.550				-.2890	-.2630		
.565			-.2370				
.600							-.2320
.650						-.2510	
.700	-.1570				-.2750		
.725				-.2860			
.750						-.2640	-.2490
.760			-.2250				
.775				-.2730	-.2790		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1890				
.834	-.1450						
.850				-.2340	-.2680	-.2570	
.857			-.1650				
.865	-.0900						
.900	-.0590			-.1830			-.2580
.905			-.1410				
.950				-.1540	-.2550	-.2400	
.953			-.1090				
.965	.0230						

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0390	-.0510	.3550	.9220	.8280	.8500	.8110
.050				-.0070	.0540	.0940	.1430
.081			-.0710				
.086		-.0170					
.094	-.0260						
.150				-.1430	-.0820	-.0670	-.0430
.177			-.1870				
.229	-.0340						
.246		-.1160					
.250				-.2170	-.1740	-.1390	-.1350
.362	-.0550						
.400				-.2710	-.2370		-.1820
.402			-.2320				
.497	-.1030						
.550				-.2950	-.2670		
.565			-.2320				
.600							-.2410
.650						-.2570	
.700	-.1770				-.2790		
.725				-.2880			
.750						-.2690	-.2590
.760			-.2080				
.775				-.2740	-.2780		
.808			-.1790				
.834	-.1480						
.850				-.2350	-.2680	-.2610	
.857			-.1720				
.865	-.0880						
.900	-.0590			-.2080			-.2240
.905			-.1610				
.950				-.1940	-.2570	-.2500	
.953			-.1430				

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1257

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING		DEPENDENT VARIABLE CP							
MACH (2) = 2.000	BETAT (3) = -4.200	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.965	.0180						
MACH (2) = 2.000	BETAT (4) = -.120	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1320	-.1080	.2170	.7720	.7080	.7250	.6840
		.050				-.0630	.0000	.0360	.0850
		.081			-.1270				
		.086		-.0740					
		.094	-.0820						
		.150				-.1750	-.1210	-.1060	-.0850
		.177			-.2150				
		.229	-.0790						
		.246		-.1500					
		.250				-.2380	-.2020	-.1680	-.1630
		.362	-.0980						
		.400				-.2870	-.2560		-.2050
		.402			-.2310				
		.497	-.1270						
		.550				-.2970	-.2840		
		.565			-.2280				
		.600							-.2580
		.650						-.2710	
		.700	-.1790				-.2890		
		.725				-.2900			
		.750						-.2840	-.2750
		.760			-.1950				
		.775				-.2760	-.2820		
		.808			-.1820				
		.834	-.1110						
		.850				-.2640	-.2790	-.2760	
		.857			-.1820				
		.865	-.0840						
		.900	-.0670			-.2490			-.2510
		.905			-.1660				
		.950				-.2170	-.2630	-.2650	
		.953			-.1330				
		.965	-.0310						
MACH (2) = 2.000	BETAT (5) = 3.970	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1760	-.1750	.0830	.5990	.5800	.6010	.5620
		.050				-.1360	-.0690	-.0250	.0180
		.081			-.1710				
		.086		-.1170					
		.094	-.1290						

AMES 97-707 1A9 Q2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.970

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2170	-.1670	-.1470	-.1240
.177			-.2130				
.229	-.1220						
.246		-.1390					
.250				-.2610	-.2320	-.2030	-.1920
.362	-.0910						
.400				-.2770	-.2750		-.2290
.402			-.2080				
.497	-.1210						
.550				-.2760	-.2930		
.565			-.2160				
.600							-.2750
.650						-.2780	
.700	-.1720				-.2860		
.725				-.2330			
.750						-.2770	-.2890
.760			-.1780				
.775				-.1900	-.2810		
.808			-.1740				
.834	-.1060						
.850				-.1650	-.2750	-.2780	
.857			-.1700				
.865	-.1090						
.900	-.0970			-.1510			-.2710
.905			-.1520				
.950				-.1400	-.2420	-.2690	
.953			-.1240				
.965	-.0660						

MACH (2) = 2.000 BETAT (6) = 6.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1930	-.2080	-.0160	.5040	.5180	.5580	.5140
.050				-.1640	-.1020	-.0500	-.0130
.081			-.1920				
.086		-.1340					
.094	-.1490						
.150				-.2360	-.1880	-.1640	-.1440
.177			-.1820				
.229	-.1360						
.246		-.1300					
.250				-.2540	-.2430	-.2160	-.2080
.362	-.0940						
.400				-.2640	-.2780		-.2410
.402			-.1990				
.497	-.1210						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1259

AMES 97-707 IA9 ORA + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.030

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2620	-.2930		
.565			-.2120				
.600							-.2780
.650						-.2720	
.700	-.1700				-.2840		
.725				-.2210			
.750						-.2750	-.2860
.760			-.1830				
.775				-.1920	-.2800		
.808			-.1760				
.834	-.1060						
.850				-.1720	-.2690	-.2770	
.857			-.1700				
.865	-.1120						
.900	-.1010			-.1530			-.2370
.905			-.1410				
.950				-.1400	-.2400	-.2560	
.953			-.1090				
.965	-.0680						

MACH (2) = 2.000 BETAT (7) = 8.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1970	-.2280	-.0940	.3490	.5790	.6130	.5510
.050				-.1880	-.0890	-.0440	-.0010
.081			-.1600				
.086		-.1760					
.094	-.1590						
.150				-.2070	-.1640	-.1520	-.1340
.177			-.1570				
.229	-.1440						
.246		-.1260					
.250				-.2250	-.2190	-.2020	-.1970
.362	-.1010						
.400				-.2290	-.2590		-.2290
.402			-.2010				
.497	-.1270						
.550				-.2320	-.2810		
.565			-.2060				
.600							-.2720
.650						-.2740	
.700	-.1720				-.2800		
.725				-.2120			
.750						-.2740	-.2860
.760			-.1550				
.775				-.1620	-.2730		

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU27)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.070

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1330				
.834	-.0890						
.850				-.1300	-.2540	-.2710	
.857			-.1080				
.865	-.0790						
.900	-.0540			-.1110			-.2700
.905			-.0810				
.950				-.0970	-.1850	-.2630	
.953			-.0590				
.965	-.0250						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1261

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU28) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .500
 RUDFLR = .000

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0100	-.0390	.4190	.9070	.8050	.7840	.6200
.050				-.1760	-.1820	-.1690	-.1560
.081			-.1470				
.086		-.0230					
.094	.0390						
.150				-.2910	-.2820	-.3010	-.2910
.177			-.3300				
.229	-.0240						
.246		-.1780					
.250				-.3760	-.3590	-.3550	-.3590
.362	-.0820						
.400				-.4440	-.4210		-.3860
.402			-.3930				
.497	-.1240						
.550				-.4280	-.4100		
.565			-.3280				
.600							-.3850
.650						-.3870	
.700	-.2760				-.4090		
.725				-.4200			
.750						-.3960	-.4110
.760			-.2430				
.775				-.4030	-.3950		
.808			-.2060				
.834	-.1230						
.850				-.3600	-.3770	-.3850	
.857			-.2100				
.865	-.0520						
.900	-.0160			-.3100			-.3910
.905			-.1470				
.950				-.2910	-.3210	-.3540	
.953			-.1140				
.965	.0160						

MACH (1) = 1.555 BETAT (2) = -6.300

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0730	-.0970	.3850	.8630	.7720	.7420	.5860
.050				-.1880	-.1940	-.1830	-.1670
.081			-.1760				
.086		-.0560					
.094	-.0080						

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (2) = -6.300	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.150				-.3020	-.2920	-.3100	-.3010
		.177			-.3420				
		.229	-.0570						
		.246		-.2030					
		.250				-.3850	-.3690	-.3650	-.3680
		.362	-.1140						
		.400				-.4550	-.4310		-.3940
		.402			-.3930				
		.497	-.1570						
		.550				-.4400	-.4190		
		.565			-.3480				
		.600							-.3900
		.650						-.3930	
		.700	-.2910				-.4170		
		.725				-.4280			
		.750						-.4050	-.4190
		.760			-.2570				
		.775				-.4120	-.4060		
		.808			-.2220				
		.834	-.1330						
		.850				-.3690	-.3890	-.3910	
		.857			-.2330				
		.865	-.0660						
		.900	-.0340			-.3210			-.4030
		.905			-.1720				
		.950				-.3000	-.3310	-.3640	
		.953			-.1230				
		.965	-.0080						

MACH (1) = 1.555	BETAT (3) = -4.230	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.1420	-.1730	.3100	.8130	.7350	.7080	.5400
		.050				-.2130	-.2060	-.2000	-.1850
		.081			-.2200				
		.086		-.0830					
		.094	-.0510						
		.150				-.3230	-.3040	-.3240	-.3130
		.177			-.3630				
		.229	-.0870						
		.246		-.2170					
		.250				-.3970	-.3770	-.3740	-.3790
		.362	-.1300						
		.400				-.4600	-.4380		-.3980
		.402			-.3760				
		.497	-.1800						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1263

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.230

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.4430	-.4320		
.565			-.3400				
.600							-.3930
.650						-.3990	
.700	-.2920				-.4230		
.725			-.4280				
.750						-.4100	-.4210
.760			-.2480				
.775				-.4080	-.4110		
.808			-.2220				
.834	-.1180						
.850				-.3650	-.3970	-.3980	
.857			-.2320				
.865	-.0700						
.900	-.0430			-.3300			-.4130
.905			-.1790				
.950				-.3130	-.3430	-.3740	
.953			-.1270				
.965	-.0170						

MACH (1) = 1.555 BETAT (4) = -.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2460	-.2800	.1170	.6690	.6440	.6230	.4370
.050				-.2760	-.2290	-.2240	-.2280
.081			-.2920				
.086		-.1350					
.094	-.1120						
.150				-.3660	-.3260	-.3370	-.3390
.177			-.3800				
.229	-.1240						
.246		-.2220					
.250				-.4240	-.3990	-.3870	-.3980
.362	-.1440						
.400				-.4520	-.4530		-.4000
.402			-.3370				
.497	-.1940						
.550				-.4530	-.4440		
.565			-.3390				
.600							-.3960
.650						-.4070	
.700	-.2980				-.4380		
.725			-.4310				
.750						-.4190	-.4290
.760			-.2550				
.775				-.4000	-.4290		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOUR8)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.110		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.808			-.2470				
		.834	-.0900						
		.850				-.3210	-.4130	-.4080	
		.857			-.1990				
		.865	-.0930						
		.900	-.0720			-.2660			-.4210
		.905			-.1640				
		.950				-.2220	-.3550	-.3780	
		.953			-.1350				
		.965	-.0470						
MACH (1) = 1.555 BETAT (5) = 4.000		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.000	-.3170	-.2910	-.0070	.5180	.6050	.6140	.4410
		.050				-.3320	-.2490	-.2280	-.2330
		.081			-.2480				
		.086		-.2000					
		.094	-.1630						
		.150				-.3730	-.3320	-.3440	-.3440
		.177			-.2760				
		.229	-.1410						
		.246		-.2080					
		.250				-.4000	-.3970	-.3880	-.3990
		.362	-.1100						
		.400				-.4130	-.4460		-.4130
		.402			-.2860				
		.497	-.1760						
		.550				-.3670	-.4360		
		.565			-.3040				
		.600							-.3980
		.650						-.4170	
		.700	-.2550				-.4450		
		.725				-.2300			
		.750						-.4210	-.4170
		.760			-.2080				
		.775				-.1950	-.4380		
		.808			-.1710				
		.834	-.0410						
		.850				-.1770	-.3980	-.3990	
		.857			-.1400				
		.865	-.0780						
		.900	-.0620			-.1490			-.3770
		.905			-.1130				
		.950				-.1120	-.3090	-.3610	
		.953			-.0880				

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 4.000

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	-.0410						

MACH (1) = 1.555 BETAT (6) = 6.060

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3570	-.2980	-.0410	.4860	.5290	.5160	.3720
.050				-.3330	-.2870	-.2680	-.2610
.081			-.2320				
.086		-.1990					
.094	-.2040						
.150				-.3870	-.3660	-.3670	-.3630
.177			-.1820				
.229	-.1260						
.246		-.1460					
.250				-.3930	-.4220	-.4110	-.4170
.362	-.0250						
.400				-.3430	-.4530		-.4260
.402			-.2690				
.497	-.0950						
.550				-.3350	-.4330		
.565			-.2970				
.600							-.4150
.650						-.4310	
.700	-.2380				-.4420		
.725				-.2670			
.750						-.4340	-.4310
.760			-.2080				
.775				-.2150	-.4290		
.808			-.1870				
.834	-.0700						
.850				-.1680	-.3790	-.4120	
.857			-.1690				
.865	-.1210						
.900	-.1080			-.1410			-.3960
.905			-.1510				
.950				-.1130	-.2980	-.3770	
.953			-.1230				
.965	-.0940						

MACH (1) = 1.555 BETAT (7) = 8.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.3520	-.2350	-.0590	.3670	.4200	.4660	.3380
.050				-.3540	-.3160	-.2790	-.2670
.081			-.1670				
.086		-.1600					
.094	-.2490						

AMES 97-757 IA9 O2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.130

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.3720	-.3780	-.3730	-.3710
.177			-.2110				
.229	-.0640						
.246		-.1660					
.250				-.3640	-.4240	-.4160	-.4230
.362	-.0460						
.400				-.3430	-.4600		-.4470
.402			-.2850				
.497	-.1330						
.550				-.3430	-.4590		
.565			-.3200				
.600							-.4470
.650						-.4540	
.700	-.2680				-.4530		
.725				-.2840			
.750						-.4610	-.4620
.760			-.2160				
.775				-.2420	-.4350		
.808			-.1880				
.834	-.1320						
.850				-.1990	-.3110	-.4500	
.857			-.1780				
.865	-.1670						
.900	-.1540			-.1680			-.4380
.905			-.1620				
.950				-.1360	-.2160	-.4010	
.953			-.1510				
.965	-.1150						

MACH (2) = 2.000 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0560	.0490	.4640	1.0610	.9520	.9680	.8710
.050				.0260	.0780	.0920	.1260
.081			-.0470				
.086		.0350					
.094	.0380						
.150				-.1200	-.0650	-.0710	-.0530
.177			-.1760				
.229	.0270						
.246		-.0920					
.250				-.2020	-.1600	-.1410	-.1400
.362	-.0210						
.400				-.2650	-.2330		-.1820
.402			-.2380				
.497	-.0810						

AMES 97-707 IA9 Q2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.320

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.590				-.2930	-.2670		
.565			-.2590				
.600							-.2370
.650						-.2560	
.700	-.1570				-.2690		
.725				-.2810			
.750						-.2660	-.2500
.760			-.2510				
.775				-.2810	-.2630		
.808			-.2230				
.834	-.1490						
.850				-.2620	-.2600	-.2570	
.857			-.1890				
.865	-.0810						
.900	-.0460			-.2290			-.2150
.905			-.1350				
.950				-.1910	-.2430	-.2340	
.953			-.0710				
.965	.0470						

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	.0140	-.0030	.4100	1.0230	.9170	.9200	.8510
.050				.0070	.0500	.0700	.1200
.081			-.0720				
.086		.0010					
.094	-.0040						
.150				-.1310	-.0900	-.0870	-.0580
.177			-.1910				
.229	-.0070						
.246		-.1200					
.250				-.2140	-.1790	-.1520	-.1480
.362	-.0480						
.450				-.2770	-.2430		-.1920
.402			-.2490				
.497	-.0990						
.550				-.3000	-.2740		
.565			-.2670				
.600							-.2470
.650						-.2610	
.700	-.1680				-.2830		
.725				-.2910			
.750						-.2730	-.2640
.760			-.2660				
.775				-.2880	-.2770		

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.2390				
.834	-.1710						
.850				-.2710	-.2690	-.2650	
.857			-.1930				
.865	-.1160						
.900	-.0870			-.2360			-.2300
.905			-.1380				
.950				-.2000	-.2560	-.2500	
.953			-.0880				
.965	.0100						

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.0510	-.0650	.3590	.9280	.8480	.8700	.7910
.050				-.0260	.0220	.0520	.0910
.081			-.0960				
.086		-.0260					
.094	-.0380						
.150				-.1550	-.1050	-.0990	-.0780
.177			-.2050				
.229	-.0400						
.246		-.1380					
.250				-.2280	-.1870	-.1660	-.1620
.362	-.0700						
.400				-.2820	-.2490		-.2040
.402			-.2580				
.497	-.1070						
.550				-.3020	-.2810		
.565			-.2720				
.600							-.2560
.650						-.2680	
.700	-.1890				-.2830		
.725				-.2910			
.750						-.2790	-.2720
.760			-.2600				
.775				-.2890	-.2760		
.808			-.2290				
.834	-.1770						
.850				-.2710	-.2740	-.2710	
.857			-.2040				
.865	-.1100						
.900	-.0820			-.2420			-.2410
.905			-.1640				
.950				-.2130	-.2530	-.2640	
.953			-.1250				

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.965	.0010						

MACH (2) = 2.000 BETAT (4) = -.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1410	-.1380	.2230	.7830	.7270	.7400	.6790
.050				-.0850	-.0270	-.0010	.0350
.081			-.1450				
.086		-.0860					
.094	-.0810						
.150				-.1900	-.1420	-.1340	-.1150
.177			-.2310				
.229	-.0860						
.246		-.1680					
.250				-.2510	-.2180	-.1920	-.1920
.362	-.1140						
.400				-.2960	-.2690		-.2270
.402			-.2620				
.497	-.1450						
.550				-.3040	-.2940		
.565			-.2500				
.600							-.2720
.650						-.2810	
.700	-.1990				-.2900		
.725				-.2990			
.750						-.2850	-.2890
.760			-.2300				
.775				-.2880	-.2870		
.808			-.2070				
.834	-.1480						
.850				-.2840	-.2890	-.2800	
.857			-.2010				
.865	-.0990						
.900	-.0770			-.2800			-.2630
.905			-.1870				
.950				-.2720	-.2680	-.2760	
.953			-.1580				
.965	-.0320						

MACH (2) = 2.000 BETAT (5) = 3.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.1940	-.1980	.0710	.6230	.6090	.6150	.5590
.050				-.1540	-.0900	-.0510	-.0230
.081			-.1970				
.086		-.1270					
.094	-.1390						

AMES 97-707 IA9 C2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 3.990

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.150				-.2360	-.1860	-.1630	-.1490
.177			-.2420				
.229	-.1320						
.246		-.1740					
.250				-.2820	-.2480	-.2150	-.2120
.362	-.1120						
.400				-.3000	-.2900		-.2440
.402			-.2400				
.497	-.1380						
.550				-.3020	-.3040		
.565			-.2420				
.600							-.2730
.650						-.2700	
.700	-.1900				-.2920		
.725				-.2880			
.750						-.2800	-.2760
.760			-.1920				
.775				-.2560	-.2900		
.808			-.1860				
.834	-.1130						
.850				-.2260	-.2760	-.2820	
.857			-.1860				
.865	-.1150						
.900	-.1060			-.2120			-.2750
.905			-.1680				
.950				-.1890	-.2520	-.2650	
.953			-.1410				
.965	-.0760						

MACH (2) = 2.000 BETAT (6) = 6.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2010	-.2270	-.0390	.4880	.5450	.5640	.4960
.050				-.1850	-.1170	-.0750	-.0530
.081			-.2190				
.086		-.1550					
.094	-.1490						
.150				-.2560	-.2030	-.1780	-.1660
.177			-.2220				
.229	-.1400						
.246		-.1560					
.250				-.2850	-.2590	-.2280	-.2210
.362	-.1050						
.400				-.2810	-.2950		-.2510
.402			-.2200				
.497	-.1340						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1271

AMES 97-707 IA9 O2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.550				-.2780	-.2840		
.565			-.2270				
.600							-.2460
.650						-.2570	
.700	-.1820				-.2840		
.725			-.2470				
.750						-.2670	-.2560
.760			-.1930				
.775				-.2200	-.2780		
.808			-.1810				
.834	-.1150						
.850				-.2030	-.2620	-.2680	
.857			-.1750				
.865	-.1200						
.900	-.1100			-.1940			-.2470
.905			-.1540				
.950				-.1800	-.2160	-.2470	
.953			-.1270				
.965	-.0790						

MACH (2) = 2.000 BETAT (7) = 8.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.000	-.2140	-.2410	-.1080	.3560	.6120	.6350	.5530
.050				-.2080	-.1060	-.0600	-.0310
.081			-.2000				
.086		-.1920					
.094	-.1640						
.150				-.2600	-.1970	-.1730	-.1540
.177			-.1890				
.229	-.1530						
.246		-.1680					
.250				-.2480	-.2530	-.2250	-.2160
.362	-.1070						
.400				-.2490	-.2840		-.2470
.402			-.2120				
.497	-.1340						
.550				-.2460	-.2980		
.565		-.2120					
.600							-.2780
.650						-.2700	
.700	-.1790				-.2860		
.725				-.2290			
.750						-.2780	-.2800
.760		-.1700					
.775			-.1860	-.2820			

AMES 97-707 1A9 O2A + S3 + T9 UPPER WING

(RBOU28)

SECTION (1) UPPER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.110

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.808			-.1510				
.834	-.0930						
.850				-.1520	-.2700	-.2800	
.857			-.1310				
.865	-.0800						
.900	-.0580			-.1330			-.2790
.905			-.1020				
.950				-.1200	-.2340	-.2650	
.953			-.0810				
.965	-.0300						

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOVD1) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(1) = -8.400

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9360	.8210	.6890	.7560	.5920
.050	.2260	.0920	.0070	.0050	.0100
.150	.3470	.2730	.2590	.2640	.2450
.300	.2400	.2040	.2080	.2100	.2490
.520	.1560	.1520	.1480	.2110	.1860
.650	-.2050	-.2410	-.2360	-.2110	-.2060
.775	-.2070	-.2880	-.2280	-.2290	-.2360
.900		.0000	-.2350	-.2230	-.2200

MACH (1) = 1.555 ALPHAT(2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8950	.7760	.6360	.6990	.5360
.050	.1960	.0640	-.0150	-.0170	-.0100
.150	.3120	.2430	.2280	.2410	.2150
.300	.2100	.1780	.1780	.1780	.2180
.520	.1200	.1230	.1180	.1680	.1560
.650	-.2230	-.2500	-.2510	-.2260	-.2260
.775	-.2180	-.2970	-.2440	-.2430	-.2500
.900		.0000	-.2490	-.2370	-.2390

MACH (1) = 1.555 ALPHAT(3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8520	.7430	.5840	.6550	.4900
.050	.1800	.0440	-.0290	-.0370	-.0190
.150	.2780	.2140	.1950	.2100	.1910
.300	.1820	.1450	.1530	.1570	.1920
.520	.0980	.0960	.0930	.1440	.1330
.650	-.2390	-.2620	-.2650	-.2370	-.2360
.775	-.2310	-.3060	-.2540	-.2530	-.2560
.900		.0000	-.2590	-.2480	-.2510

MACH (1) = 1.555 ALPHAT(4) = -2.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7940	.7020	.5380	.6120	.4500
.050	.1750	.0280	-.0440	-.0560	-.0520
.150	.2520	.1890	.1740	.1870	.1650
.300	.1560	.1210	.1260	.1300	.1670
.520	.0710	.0710	.0670	.1160	.1080
.650	-.2540	-.2730	-.2770	-.2500	-.2500
.775	-.2460	-.3170	-.2660	-.2640	-.2680
.900		.0000	-.2700	-.2610	-.2670

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOU11)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(5) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7060	.6640	.5010	.5620	.4060
.050	.1780	.0030	-.0640	-.0700	-.0650
.150	.2170	.1580	.1500	.1620	.1560
.300	.1290	.0940	.1000	.1040	.1370
.520	.0510	.0480	.0470	.0950	.0840
.650	-.2690	-.2820	-.2870	-.2630	-.2620
.775	-.2560	-.3240	-.2770	-.2770	-.2780
.900		.0000	-.2820	-.2730	-.2780

MACH (1) = 1.555 ALPHAT(6) = 1.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6570	.6280	.4650	.5230	.3690
.050	.1270	-.0180	-.0750	-.0900	-.0760
.150	.1810	.1330	.1240	.1270	.1300
.300	.1030	.0660	.0790	.0820	.1140
.520	.0250	.0240	.0290	.0680	.0630
.650	-.2850	-.2920	-.2930	-.2740	-.2700
.775	-.2540	-.3300	-.2840	-.2840	-.2900
.900		.0000	-.2880	-.2810	-.2920

MACH (1) = 1.555 ALPHAT(7) = 4.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5910	.5910	.4290	.4780	.3300
.050	.1090	-.0170	-.0810	-.0970	-.0900
.150	.1600	.1060	.1050	.0970	.0830
.300	.0780	.0470	.0570	.0590	.0890
.520	.0030	.0040	.0100	.0430	.0410
.650	-.2930	-.3020	-.3010	-.2860	-.2800
.775	-.2520	-.3390	-.2970	-.2940	-.2980
.900		.0000	-.3000	-.2900	-.3020

MACH (1) = 1.555 ALPHAT(8) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4850	.5510	.3980	.4350	.2920
.050	.0810	-.0480	-.0950	-.1130	-.1050
.150	.1270	.0770	.0840	.0640	.0510
.300	.0530	.0220	.0360	.0340	.0640
.520	-.0120	-.0130	-.0110	.0240	.0200
.650	-.3080	-.3110	-.3080	-.2950	-.2890
.775	-.2600	-.3460	-.3050	-.3020	-.3080
.900		.0000	-.3070	-.3000	-.3120

MACH (1) = 1.555 ALPHAT(9) = 8.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5140	.4850	.3650	.3910	.2580
.050	.1070	-.0490	-.1050	-.1330	-.1150
.150	.1160	.0640	.0680	.0420	-.0030
.300	.0430	.0070	.0160	.0110	.0410

AMES 97-707 1A9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV01)

SECTION (1) LEFT VERTICAL		DEPENDENT VARIABLE CP				
MACH (1) = 1.555 ALPHAT(9) = 8.130	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	-.0210	-.0320	-.0300	.0040	.0040
	.650	-.3270	-.3180	-.3170	-.3040	-.3030
	.775	-.2650	-.3410	-.3140	-.3120	-.3160
	.900		.0000	-.3170	-.3070	-.3210
MACH (2) = 2.000 ALPHAT(1) = -8.360	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.9940	.9510	.7700	.8420	.6840
	.050	.2780	.2310	.1560	.1340	.1250
	.150	.4150	.3660	.3580	.2540	.2300
	.300	.3190	.2910	.3100	.3190	.3480
	.520	.2350	.2350	.2330	.2670	.2740
	.650	-.0690	-.0780	-.0760	-.0490	-.0390
	.775	-.0630	-.1220	-.0770	-.0640	-.0690
	.900		.0000	-.0860	-.0650	-.0750
MACH (2) = 2.000 ALPHAT(2) = -6.310	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.9340	.8980	.7180	.7870	.6360
	.050	.2410	.2000	.1360	.1110	.1040
	.150	.3720	.3280	.3170	.2140	.1980
	.300	.2790	.2550	.2740	.2870	.3170
	.520	.2010	.2000	.2000	.2370	.2430
	.650	-.0860	-.0940	-.0900	-.0650	-.0550
	.775	-.0820	-.1340	-.0940	-.0790	-.0840
	.900		.0000	-.1030	-.0800	-.0910
MACH (2) = 2.000 ALPHAT(3) = -4.250	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.8680	.8410	.6590	.7250	.5840
	.050	.2070	.1800	.1140	.0930	.0860
	.150	.3280	.2950	.2830	.1860	.1780
	.300	.2420	.2220	.2450	.2590	.2810
	.520	.1680	.1680	.1710	.2050	.2140
	.650	-.1030	-.1070	-.1040	-.0770	-.0680
	.775	-.0980	-.1460	-.1060	-.0920	-.1010
	.900		.0000	-.1160	-.0950	-.1080
MACH (2) = 2.000 ALPHAT(4) = -2.210	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.8210	.7960	.6140	.6700	.5420
	.050	.1730	.1620	.0990	.0750	.0700
	.150	.2920	.2640	.2580	.1590	.1500
	.300	.2100	.1910	.2110	.2260	.2500
	.520	.1420	.1400	.1470	.1800	.1900

AMES 97-707 1A9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV01)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(4) = -2.210	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.650	-.1210	-.1220	-.1170	-.0900	-.0850
	.775	-.1130	-.1570	-.1200	-.1070	-.1130
	.900		.0000	-.1290	-.1090	-.1210
MACH (2) = 2.000 ALPHAT(5) = -.160	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7770	.7450	.5700	.6160	.4970
	.050	.1370	.1420	.0800	.0560	.0510
	.150	.2590	.2430	.2290	.1340	.1320
	.300	.1810	.1660	.1850	.2030	.2220
	.520	.1160	.1160	.1220	.1570	.1660
	.650	-.1360	-.1330	-.1260	-.1010	-.0960
	.775	-.1250	-.1650	-.1300	-.1140	-.1260
	.900		.0000	-.1370	-.1200	-.1340
MACH (2) = 2.000 ALPHAT(6) = 1.890	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7390	.6920	.5280	.5720	.4540
	.050	.0970	.1120	.0590	.0380	.0400
	.150	.2230	.2170	.1900	.1150	.1180
	.300	.1540	.1440	.1630	.1790	.2020
	.520	.0900	.0930	.1030	.1400	.1460
	.650	-.1560	-.1430	-.1330	-.1100	-.1070
	.775	-.1390	-.1730	-.1380	-.1240	-.1300
	.900		.0000	-.1450	-.1300	-.1390
MACH (2) = 2.000 ALPHAT(7) = 3.930	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7110	.6500	.4880	.5280	.4220
	.050	.0500	.0730	.0360	.0160	.0210
	.150	.1900	.1930	.1460	.0880	.0890
	.300	.1260	.1220	.1450	.1580	.1800
	.520	.0660	.0750	.0840	.1180	.1290
	.650	-.1710	-.1520	-.1410	-.1210	-.1170
	.775	-.1530	-.1770	-.1470	-.1350	-.1420
	.900		.0000	-.1570	-.1420	-.1490
MACH (2) = 2.000 ALPHAT(8) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.6990	.6110	.4380	.4790	.3770
	.050	.0290	.0400	.0140	.0010	.0050
	.150	.1620	.1660	.1130	.0670	.0730
	.300	.0970	.0960	.1240	.1360	.1560
	.520	.0410	.0550	.0680	.0980	.1100
	.650	-.1790	-.1570	-.1500	-.1270	-.1240

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1277

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV01)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(8) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.775	-.1650	-.1810	-.1540	-.1410	-.1500
.900		.0000	-.1610	-.1480	-.1580

MACH (2) = 2.000 ALPHAT(9) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7080	.5730	.4020	.4350	.3400
.050	.0000	-.0010	-.0160	-.0170	-.0120
.150	.1360	.1180	.0620	.0460	.0460
.300	.0700	.0750	.1070	.1140	.1390
.520	.0270	.0370	.0500	.0840	.0950
.650	-.1830	-.1620	-.1560	-.1340	-.1340
.775	-.1700	-.1860	-.1630	-.1490	-.1560
.900		.0000	-.1680	-.1540	-.1640

AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL

(RBOV02) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3910	.2880	.1850	.2590	.2410
.050	.1770	.2640	.2870	.3310	.3280
.150	.1570	.2040	.2390	.2770	.2720
.300	.0830	.1350	.2080	.2370	.1800
.520	.0590	.1320	.1520	.2080	.1330
.650	-.3040	-.2350	-.2510	-.2460	-.2570
.775	-.2100	-.2470	-.2070	-.2370	-.2630
.900		.0000	-.2000	-.2300	-.2520

MACH (1) = 1.555 BETAT (2) = -5.100

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3640	.3510	.2890	.3610	.2970
.050	.1310	.2180	.2190	.2560	.2530
.150	.1320	.1740	.1980	.2250	.2110
.300	.0640	.1100	.1640	.1800	.1430
.520	.0320	.0950	.1130	.1730	.1260
.650	-.2970	-.2520	-.2710	-.2520	-.2640
.775	-.2290	-.2660	-.2450	-.2550	-.2770
.900		.0000	-.2340	-.2540	-.2740

MACH (1) = 1.555 BETAT (3) = -3.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1920	.3480	.3130	.3680	.2900
.050	.0690	.1560	.1230	.1580	.1760
.150	.1050	.1200	.1390	.1540	.1500
.300	.0460	.0660	.1020	.1200	.1010
.520	.0060	.0360	.0560	.1270	.0890
.650	-.2720	-.2860	-.2850	-.2640	-.2760
.775	-.2420	-.2850	-.2730	-.2740	-.2890
.900		.0000	-.2720	-.2730	-.2930

MACH (1) = 1.555 BETAT (4) = 5.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4290	.3560	.3570	.3710	.2070
.050	.2450	-.1120	-.2440	-.3380	-.3660
.150	.1700	.0270	-.1960	-.2610	-.2750
.300	.0720	-.0370	-.1010	-.1640	-.1840
.520	-.0180	-.0810	-.0790	-.0570	-.0030
.650	-.2850	-.3550	-.3410	-.3440	-.3160
.775	-.2840	-.2870	-.3580	-.3430	-.3220
.900		.0000	-.3740	-.3260	-.3240

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV02)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3450	.3820	.3090	.2830	.1250
.050	.2320	-.2350	-.3000	-.3670	-.4210
.150	.1410	-.0330	-.2910	-.3560	-.3790
.300	.0380	-.0930	-.2420	-.2660	-.2880
.520	-.0620	-.1310	-.1660	-.2180	-.1090
.650	-.3200	-.3820	-.3530	-.4030	-.4100
.775	-.3130	-.3340	-.3720	-.3800	-.4080
.900		.0000	-.3920	-.3570	-.3950

MACH (1) = 1.555 BETAT (6) = 9.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2510	.2990	.2680	.1710	.0100
.050	.1000	-.3280	-.3840	-.4200	-.4650
.150	.0150	-.2900	-.3810	-.4330	-.4830
.300	-.0570	-.1520	-.3640	-.3650	-.4080
.520	-.1260	-.1920	-.3300	-.3380	-.2490
.650	-.3510	-.4020	-.4180	-.4560	-.4620
.775	-.3230	-.3630	-.4290	-.4420	-.4730
.900		.0000	-.4280	-.3620	-.4230

MACH (2) = 2.000 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1960	.0910	.1330	.2030	.2500
.050	.1780	.3630	.3920	.4290	.4260
.150	.1680	.2820	.3250	.3570	.3680
.300	.0880	.1960	.2670	.2970	.2900
.520	.0830	.1680	.2100	.3000	.2820
.650	-.1600	-.0920	-.0890	-.0540	-.0590
.775	-.1010	-.1050	-.0650	-.0560	-.0720
.900		.0000	-.0500	-.0530	-.0670

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2780	.2560	.2510	.3170	.3130
.050	.1730	.3000	.3500	.3690	.3710
.150	.1510	.2230	.2880	.3120	.3160
.300	.0940	.1480	.2280	.2550	.2450
.520	.0710	.1240	.1670	.2350	.2130
.650	-.1630	-.1140	-.1020	-.0600	-.0650
.775	-.1130	-.1290	-.0980	-.0710	-.0860
.900		.0000	-.0950	-.0790	-.0860

MACH (2) = 2.000 BETAT (3) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0740	.3850	.3440	.3810	.3370
.050	.1520	.2630	.2650	.2800	.2900
.150	.1410	.1970	.2350	.2520	.2540
.300	.0880	.1270	.1850	.2100	.1940

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV02)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0510	.0960	.1280	.1770	.1590
.650	-.1640	-.1350	-.1220	-.0870	-.0880
.775	-.1320	-.1600	-.1150	-.0970	-.1180
.900		.0000	-.1160	-.1070	-.1210

MACH (2) = 2.000 BETAT (4) = 3.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0980	.4260	.4000	.3860	.2550
.050	.1270	-.0950	-.1520	-.1970	-.1960
.150	.0910	-.0400	-.1450	-.1470	-.1450
.300	.0370	-.0240	-.0840	-.1180	-.0950
.520	-.0130	-.0480	-.0530	-.0850	-.0590
.650	-.1750	-.1980	-.2000	-.2120	-.2170
.775	-.1880	-.1850	-.2100	-.2050	-.2270
.900		.0000	-.2200	-.2030	-.2210

MACH (2) = 2.000 BETAT (5) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2580	.3260	.3780	.3280	.1920
.050	.1180	-.1790	-.2000	-.2570	-.2610
.150	.0560	-.0810	-.2020	-.2160	-.2220
.300	-.0060	-.0840	-.1860	-.1990	-.1760
.520	-.0370	-.0950	-.1480	-.1660	-.1390
.650	-.1870	-.2220	-.2310	-.2570	-.2610
.775	-.2070	-.2060	-.2440	-.2560	-.2710
.900		.0000	-.2520	-.2650	-.2660

MACH (2) = 2.000 BETAT (6) = 8.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1550	.2090	.2890	.2460	.1140
.050	.0650	-.2110	-.2270	-.2550	-.2650
.150	-.0010	-.2140	-.2380	-.2480	-.2650
.300	-.0490	-.1320	-.2320	-.2430	-.2380
.520	-.0870	-.1420	-.2240	-.2210	-.1680
.650	-.2090	-.2540	-.2760	-.2840	-.2830
.775	-.2240	-.2380	-.2910	-.2880	-.3080
.900		.0000	-.2970	-.2500	-.2880

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV03) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3570	.2730	.2410	.3110	.2900
.050	.2240	.2700	.3180	.3640	.3550
.150	.1930	.2130	.2720	.3040	.2900
.300	.1260	.1600	.2330	.2590	.1990
.520	.0970	.1510	.1670	.2260	.1550
.650	-.2600	-.2300	-.2530	-.2370	-.2470
.775	-.2070	-.2250	-.2240	-.2310	-.2540
.900		.0000	-.2080	-.2250	-.2450

MACH (1) = 1.555 BETAT (2) = -5.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3590	.3320	.3330	.4220	.3430
.050	.1930	.2180	.2410	.2820	.2900
.150	.1520	.1790	.2220	.2540	.2410
.300	.0890	.1270	.1940	.2150	.1730
.520	.0560	.1040	.1390	.2030	.1500
.650	-.2410	-.2550	-.2540	-.2420	-.2520
.775	-.2230	-.2660	-.2340	-.2420	-.2650
.900		.0000	-.2290	-.2410	-.2650

MACH (1) = 1.555 BETAT (3) = -3.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2180	.4720	.3550	.4130	.3240
.050	.1210	.1640	.1370	.1730	.1980
.150	.1250	.1400	.1610	.1730	.1730
.300	.0730	.0810	.1260	.1370	.1150
.520	.0200	.0510	.0720	.1440	.1100
.650	-.1940	-.2900	-.2770	-.2540	-.2620
.775	-.2290	-.3130	-.2620	-.2620	-.2810
.900		.0000	-.2620	-.2620	-.2860

MACH (1) = 1.555 BETAT (4) = 5.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2070	.3570	.4040	.4120	.2470
.050	.1720	-.0080	-.2500	-.3450	-.3540
.150	.1430	.0240	-.1720	-.2570	-.2570
.300	.0740	-.0270	-.0650	-.1650	-.1680
.520	-.0020	-.0830	-.0670	-.0350	.0320
.650	-.2520	-.3320	-.3390	-.3270	-.2990
.775	-.2670	-.2720	-.3480	-.3300	-.3110
.900		.0000	-.3680	-.3150	-.3130

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV03)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3230	.3670	.3610	.3330	.1710
.050	.2220	-.2300	-.2870	-.3860	-.4300
.150	.1360	-.0170	-.2730	-.3570	-.3630
.300	.0370	-.0660	-.2240	-.2610	-.2760
.520	-.0570	-.1140	-.1600	-.1750	-.0970
.650	-.2980	-.3710	-.3440	-.3990	-.3970
.775	-.3020	-.3100	-.3660	-.3910	-.3820
.900		.0000	-.3850	-.3580	-.3880

MACH (1) = 1.555 BETAT (6) = 9.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2300	.3260	.2970	.2150	.0520
.050	.0910	-.3280	-.3730	-.4220	-.4730
.150	.0170	-.3270	-.3690	-.4400	-.4770
.300	-.0470	-.1450	-.3460	-.3560	-.4110
.520	-.1290	-.1840	-.3120	-.3090	-.2370
.650	-.3550	-.4000	-.4160	-.4540	-.4620
.775	-.3230	-.3550	-.4280	-.4480	-.4700
.900		.0000	-.4370	-.3690	-.4390

MACH (2) = 2.000 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1890	.1690	.1860	.2650	.3020
.050	.2020	.3590	.4310	.4650	.4600
.150	.1820	.2740	.3590	.3900	.3960
.300	.1140	.1950	.2910	.3320	.3140
.520	.1170	.1820	.2350	.3260	.3040
.650	-.1370	-.0860	-.0750	-.0390	-.0430
.775	-.0760	-.0950	-.0640	-.0410	-.0600
.900		.0000	-.0590	-.0440	-.0570

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2560	.3100	.2950	.3570	.3470
.050	.3260	.3570	.3820	.4030	.4000
.150	.2420	.2600	.3180	.3450	.3410
.300	.1440	.1720	.2600	.2870	.2710
.520	.1140	.1460	.1950	.2630	.2360
.650	-.1400	-.1040	-.0850	-.0490	-.0510
.775	-.0920	-.1230	-.0800	-.0590	-.0750
.900		.0000	-.0770	-.0640	-.0750

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1330	.4550	.3930	.4220	.3840
.050	.1800	.2900	.3000	.3130	.3200
.150	.1710	.2300	.2670	.2770	.2810
.300	.1290	.1560	.2140	.2330	.2190

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1283

AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL

(RBOV03)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0820	.1190	.1490	.2000	.1780
.650	-.1230	-.1330	-.1130	-.0770	-.0790
.775	-.1200	-.1710	-.1070	-.0880	-.1050
.900		.0000	-.1080	-.0990	-.1080

MACH (2) = 2.000 BETAT (4) = 3.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1230	.5070	.4460	.4270	.2950
.050	.1210	-.1000	-.1540	-.1890	-.1810
.150	.0890	-.0620	-.1320	-.1340	-.1280
.300	.0340	-.0080	-.0850	-.1030	-.0790
.520	-.0140	-.0370	-.0350	-.0690	-.0430
.650	-.1680	-.2000	-.1990	-.2080	-.2100
.775	-.1820	-.1840	-.2080	-.2030	-.2180
.900		.0000	-.2130	-.1940	-.2140

MACH (2) = 2.000 BETAT (5) = 6.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1590	.4010	.4150	.3770	.2270
.050	.0640	-.1720	-.1870	-.2470	-.2470
.150	.0480	-.1950	-.1870	-.2080	-.2030
.300	-.0070	-.0680	-.1720	-.1820	-.1540
.520	-.0420	-.0750	-.1340	-.1520	-.1170
.650	-.1880	-.2150	-.2330	-.2520	-.2490
.775	-.2010	-.2010	-.2390	-.2540	-.2730
.900		.0000	-.2440	-.2610	-.2680

MACH (2) = 2.000 BETAT (6) = 8.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1430	.2940	.3560	.3160	.1710
.050	.0600	-.1960	-.2210	-.2610	-.2840
.150	-.0050	-.2270	-.2300	-.2440	-.2550
.300	-.0440	-.1290	-.2230	-.2340	-.2150
.520	-.0970	-.1390	-.2060	-.2000	-.1720
.650	-.2280	-.2470	-.2690	-.2770	-.2730
.775	-.2300	-.2410	-.2810	-.2810	-.3020
.900		.0000	-.2830	-.2580	-.2890

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV04) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.090

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3760	.3340	.3040	.3780	.3400
.050	.2560	.2940	.3460	.3940	.3910
.150	.2090	.2370	.3010	.3340	.3230
.300	.1440	.1850	.2590	.2890	.2290
.520	.1120	.1670	.1940	.2610	.1810
.650	-.2120	-.2280	-.2360	-.2250	-.2340
.775	-.2050	-.2410	-.2050	-.2190	-.2460
.900		.0000	-.1960	-.2170	-.2370

MACH (1) = 1.555 BETAT (2) = -5.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2680	.4360	.3750	.4690	.3800
.050	.1720	.2670	.2700	.3000	.3040
.150	.1520	.2180	.2490	.2720	.2650
.300	.1100	.1540	.2080	.2290	.1950
.520	.0580	.1240	.1560	.2230	.1730
.650	-.1750	-.2510	-.2460	-.2290	-.2410
.775	-.2160	-.2770	-.2180	-.2300	-.2570
.900		.0000	-.2150	-.2300	-.2560

MACH (1) = 1.555 BETAT (3) = -3.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2660	.5380	.3920	.4600	.3610
.050	.1970	.2090	.1570	.1990	.2180
.150	.1660	.1820	.1870	.2020	.1930
.300	.1020	.1120	.1560	.1600	.1340
.520	.0410	.0800	.0930	.1720	.1260
.650	-.2630	-.2730	-.2700	-.2520	-.2560
.775	-.2380	-.3040	-.2530	-.2590	-.2760
.900		.0000	-.2540	-.2590	-.2810

MACH (1) = 1.555 BETAT (4) = 5.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1570	.5120	.4470	.4460	.2830
.050	.2420	-.1310	-.2530	-.3360	-.3380
.150	.1520	.0550	-.1680	-.2370	-.2410
.300	.0640	.0070	-.0510	-.1750	-.1460
.520	-.0050	-.0580	-.0440	-.0120	.0570
.650	-.2550	-.3360	-.3310	-.3060	-.2940
.775	-.2690	-.2700	-.3300	-.3180	-.2960
.900		.0000	-.3490	-.3020	-.2960

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOVD4)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3390	.4210	.4090	.3730	.2110
.050	.1350	-.2180	-.2930	-.4110	-.4270
.150	.1020	-.1390	-.2590	-.3380	-.3510
.300	.0280	-.0430	-.2020	-.2940	-.2660
.520	-.0420	-.0980	-.1520	-.1470	-.1600
.650	-.2950	-.3720	-.3490	-.3820	-.4100
.775	-.2900	-.2940	-.3570	-.3790	-.3780
.900		.0000	-.3740	-.3620	-.3650

MACH (1) = 1.555 BETAT (6) = 9.100

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2000	.3170	.3410	.2520	.0920
.050	.0880	-.3130	-.3570	-.4210	-.4730
.150	.0290	-.3520	-.3500	-.4330	-.4650
.300	-.0480	-.1330	-.3280	-.3500	-.3950
.520	-.1400	-.1650	-.3000	-.2830	-.2400
.650	-.3500	-.3960	-.4120	-.4460	-.4550
.775	-.3210	-.3530	-.4210	-.4450	-.4610
.900		.0000	-.4300	-.3720	-.4430

MACH (2) = 2.000 BETAT (1) = -8.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1470	.2480	.2520	.3320	.3460
.050	.3380	.4130	.4620	.4980	.4880
.150	.2440	.3030	.3820	.4220	.4250
.300	.1540	.2090	.3270	.3590	.3340
.520	.1590	.2060	.2700	.3530	.3180
.650	-.1220	-.0760	-.0560	-.0260	-.0360
.775	-.0650	-.1040	-.0430	-.0300	-.0510
.900		.0000	-.0380	-.0360	-.0470

MACH (2) = 2.000 BETAT (2) = -6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1240	.3770	.3390	.3930	.3930
.050	.3690	.4120	.4220	.4270	.4260
.150	.2850	.3080	.3540	.3720	.3680
.300	.1880	.2090	.2860	.3130	.2860
.520	.1430	.1740	.2140	.2840	.2480
.650	-.1240	-.0980	-.0780	-.0410	-.0460
.775	-.0830	-.1270	-.0670	-.0530	-.0700
.900		.0000	-.0640	-.0630	-.0690

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2040	.5130	.4250	.4680	.4280
.050	.2100	.3190	.3260	.3380	.3520
.150	.1960	.2590	.2950	.3100	.3080
.300	.1560	.1860	.2410	.2630	.2430

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOVD4)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1060	.1480	.1720	.2240	.2020
.650	-.0770	-.1230	-.1000	-.0640	-.0650
.775	-.1090	-.1650	-.0920	-.0780	-.0940
.900		.0000	-.0980	-.0910	-.1000

MACH (2) = 2.000 BETAT (4) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1730	.5740	.4890	.4740	.3390
.050	.1340	-.0990	-.1610	-.1700	-.1660
.150	.0850	-.0630	-.1140	-.1180	-.1130
.300	.0390	.0150	-.0770	-.0880	-.0610
.520	-.0070	-.0170	-.0170	-.0500	-.0240
.650	-.1640	-.2020	-.1920	-.2010	-.2040
.775	-.1750	-.1810	-.2030	-.1990	-.2050
.900		.0000	-.2050	-.1890	-.2000

MACH (2) = 2.000 BETAT (5) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1010	.4680	.4700	.4230	.2800
.050	.0760	-.1390	-.1730	-.2340	-.2330
.150	.0560	-.1610	-.1730	-.1890	-.1870
.300	-.0160	-.1050	-.1510	-.1660	-.1370
.520	-.0490	-.0760	-.1160	-.1310	-.0920
.650	-.1920	-.2190	-.2260	-.2420	-.2390
.775	-.1930	-.2020	-.2320	-.2420	-.2590
.900		.0000	-.2350	-.2490	-.2530

MACH (2) = 2.000 BETAT (6) = 8.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1280	.3830	.4350	.3890	.2190
.050	.0620	-.1950	-.2190	-.2710	-.2760
.150	-.0090	-.2190	-.2230	-.2400	-.2410
.300	-.0460	-.1330	-.2180	-.2190	-.1940
.520	-.1080	-.1330	-.1910	-.1920	-.1590
.650	-.2290	-.2450	-.2650	-.2770	-.2620
.775	-.2270	-.2400	-.2740	-.2860	-.2910
.900		.0000	-.2780	-.2780	-.2810

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1287

AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL

(RBOV05) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2710	.3770	.3510	.4290	.3810
.050	.2950	.3350	.3810	.4260	.4240
.150	.2390	.2700	.3420	.3740	.3530
.300	.1750	.2150	.2920	.3230	.2530
.520	.1380	.1970	.2220	.2800	.1990
.650	-.1750	-.2170	-.2280	-.2170	-.2230
.775	-.1950	-.2310	-.1950	-.2130	-.2410
.900		.0000	-.1860	-.2130	-.2350

MACH (1) = 1.555 BETAT (2) = -5.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3410	.4630	.4100	.5090	.4230
.050	.2710	.3220	.3160	.3360	.3390
.150	.2090	.2570	.2860	.3060	.2920
.300	.1460	.1860	.2410	.2600	.2230
.520	.0990	.1650	.1760	.2560	.1930
.650	-.2190	-.2340	-.2380	-.2220	-.2290
.775	-.2100	-.2670	-.2130	-.2220	-.2460
.900		.0000	-.2080	-.2190	-.2440

MACH (1) = 1.555 BETAT (3) = -3.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3230	.5890	.4290	.5050	.4000
.050	.2710	.2400	.1790	.2320	.2490
.150	.2240	.2170	.2160	.2350	.2230
.300	.1470	.1410	.1780	.1880	.1650
.520	.0800	.1070	.1210	.2040	.1490
.650	-.2470	-.2600	-.2550	-.2400	-.2420
.775	-.2310	-.2970	-.2370	-.2450	-.2690
.900		.0000	-.2360	-.2460	-.2720

MACH (1) = 1.555 BETAT (4) = 5.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2970	.5690	.4880	.4830	.3240
.050	.2140	-.1490	-.2590	-.3320	-.3320
.150	.1400	-.0010	-.1860	-.2310	-.2350
.300	.0530	.0310	-.0480	-.1740	-.1400
.520	-.0120	-.0330	-.0270	.0180	.0140
.650	-.2470	-.3490	-.3310	-.2950	-.3030
.775	-.2630	-.2740	-.3240	-.3050	-.2820
.900		.0000	-.3320	-.2910	-.2760

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV05)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 7.070	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2200	.4750	.4580	.4210	.2480
		.050	.1100	-.1990	-.3060	-.4070	-.4160
		.150	.1140	-.1220	-.2610	-.3250	-.3390
		.300	.0310	-.0340	-.1830	-.2760	-.2460
		.520	-.0440	-.0840	-.1290	-.1950	-.1530
		.650	-.2820	-.3720	-.3440	-.3750	-.4060
		.775	-.2880	-.2910	-.3500	-.3510	-.4000
		.900		.0000	-.3640	-.3510	-.3680

MACH (1) = 1.555	BETAT (6) = 9.090	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1310	.3560	.3910	.3030	.1380
		.050	.0760	-.3130	-.3560	-.4380	-.4840
		.150	.0220	-.3540	-.3490	-.4200	-.4390
		.300	-.0480	-.1170	-.3120	-.3640	-.3810
		.520	-.1460	-.1450	-.2840	-.2720	-.2690
		.650	-.3540	-.4000	-.4040	-.4440	-.4490
		.775	-.3130	-.3450	-.4120	-.4360	-.4630
		.900		.0000	-.4180	-.4040	-.4520

MACH (2) = 2.000	BETAT (1) = -8.280	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.0840	.3010	.3020	.3710	.3940
		.050	.4030	.4590	.5180	.5180	.5120
		.150	.2930	.3540	.4320	.4500	.4470
		.300	.1830	.2480	.3530	.3830	.3530
		.520	.1680	.2270	.2890	.3780	.3370
		.650	-.1060	-.0580	-.0470	-.0130	-.0180
		.775	-.0490	-.0860	-.0280	-.0180	-.0420
		.900		.0000	-.0230	-.0240	-.0440

MACH (2) = 2.000	BETAT (2) = -6.250	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1380	.4550	.3840	.4580	.4520
		.050	.3560	.4450	.4520	.4560	.4600
		.150	.2880	.3420	.3900	.3990	.4000
		.300	.2120	.2510	.3190	.3410	.3170
		.520	.1720	.2140	.2410	.3180	.2770
		.650	-.0910	-.0820	-.0690	-.0260	-.0370
		.775	-.0720	-.1180	-.0570	-.0390	-.0600
		.900		.0000	-.0530	-.0510	-.0610

MACH (2) = 2.000	BETAT (3) = -4.140	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2380	.5730	.4780	.5260	.4790
		.050	.2460	.3570	.3570	.3560	.3730
		.150	.2290	.2920	.3280	.3290	.3320
		.300	.1780	.2140	.2660	.2860	.2710

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1289

AMES 97-707 IAS Q2A + S3 + T9 LEFT VERTICAL

(RBOV05)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1270	.1770	.1960	.2470	.2290
.650	-.0960	-.1070	-.0920	-.0560	-.0560
.775	-.1000	-.1500	-.0850	-.0660	-.0880
.900		.0000	-.0870	-.0770	-.0910

MACH (2) = 2.000 BETAT (4) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2280	.6340	.5370	.5340	.3910
.050	.1590	-.0890	-.1620	-.1520	-.1450
.150	.0980	-.0530	-.1000	-.0980	-.0910
.300	.0520	.0460	-.0620	-.0700	-.0410
.520	.0020	.0100	.0050	-.0310	-.0040
.650	-.1610	-.2080	-.1830	-.1940	-.1980
.775	-.1710	-.1890	-.1950	-.1900	-.2010
.900		.0000	-.1970	-.1820	-.1930

MACH (2) = 2.000 BETAT (5) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0990	.5330	.5100	.4760	.3330
.050	.0640	-.1220	-.1670	-.2180	-.2170
.150	.0590	-.1370	-.1640	-.1740	-.1690
.300	-.0010	-.1160	-.1360	-.1520	-.1160
.520	-.0560	-.0740	-.0900	-.1150	-.0750
.650	-.1830	-.2140	-.2180	-.2360	-.2330
.775	-.1880	-.2000	-.2270	-.2380	-.2510
.900		.0000	-.2260	-.2380	-.2440

MACH (2) = 2.000 BETAT (6) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0070	.4410	.4790	.4120	.2610
.050	-.0160	-.1580	-.2010	-.2600	-.2630
.150	.0050	-.1750	-.2030	-.2220	-.2240
.300	-.0530	-.1890	-.1900	-.2010	-.1720
.520	-.1090	-.1780	-.1760	-.1710	-.1340
.650	-.2260	-.2520	-.2580	-.2670	-.2530
.775	-.2180	-.2370	-.2690	-.2690	-.2790
.900		.0000	-.2560	-.2390	-.2650

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOVD6) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3840	.4240	.3960	.4820	.4190
		.050	.3040	.3840	.4190	.4650	.4580
		.150	.2570	.3130	.3720	.4040	.3810
		.300	.1990	.2520	.3200	.3480	.2810
		.520	.1580	.2270	.2440	.3090	.2190
		.650	-.1300	-.2030	-.2130	-.2070	-.2120
		.775	-.1760	-.2390	-.1780	-.2040	-.2300
		.900		.0000	-.1680	-.2020	-.2220
MACH (1) = 1.555	BETAT (2) = -5.080	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3270	.4990	.4330	.5490	.4580
		.050	.3720	.3670	.3580	.3860	.3800
		.150	.2830	.2910	.3170	.3440	.3300
		.300	.1980	.2170	.2750	.2920	.2510
		.520	.1530	.1970	.2080	.2810	.2140
		.650	-.2120	-.2220	-.2230	-.2120	-.2170
		.775	-.2010	-.2640	-.1990	-.2120	-.2370
		.900		.0000	-.1960	-.2120	-.2340
MACH (1) = 1.555	BETAT (3) = -3.060	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3930	.6270	.4690	.5580	.4420
		.050	.3140	.2580	.2030	.2580	.2690
		.150	.2580	.2430	.2440	.2540	.2460
		.300	.1800	.1670	.1950	.2090	.1910
		.520	.1060	.1270	.1400	.2260	.1720
		.650	-.2120	-.2490	-.2470	-.2310	-.2320
		.775	-.2190	-.2910	-.2280	-.2380	-.2580
		.900		.0000	-.2270	-.2380	-.2610
MACH (1) = 1.555	BETAT (4) = 5.050	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3070	.5970	.5240	.5220	.3460
		.050	.1980	-.1450	-.2570	-.3270	-.3270
		.150	.1400	-.0750	-.1860	-.2290	-.2270
		.300	.0470	.0520	-.0440	-.1700	-.1350
		.520	-.0250	-.0060	-.0240	.0120	-.0190
		.650	-.2310	-.3560	-.3260	-.2940	-.3210
		.775	-.2600	-.2770	-.3170	-.2910	-.2820
		.900		.0000	-.3250	-.2840	-.2670

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOVD6)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.060		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2710	.5230	.5020	.4640	.2810
		.050	.0740	-.2260	-.3090	-.4020	-.4140
		.150	.1050	-.0600	-.2630	-.3160	-.3260
		.300	.0180	-.0190	-.1680	-.2670	-.2320
		.520	-.0630	-.0790	-.1160	-.1940	-.1560
		.650	-.2700	-.3730	-.3420	-.3800	-.3960
		.775	-.2850	-.2950	-.3380	-.3340	-.4080
		.900		.0000	-.3530	-.3430	-.3770
MACH (1) = 1.555 BETAT (6) = 9.090		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.0610	.4000	.4250	.3410	.1710
		.050	-.0070	-.3100	-.3460	-.4470	-.4830
		.150	.0380	-.3540	-.3300	-.4120	-.4300
		.300	-.0620	-.1250	-.2950	-.3640	-.3800
		.520	-.1380	-.1130	-.2760	-.2720	-.2520
		.650	-.3460	-.3990	-.4040	-.4380	-.4430
		.775	-.2950	-.3420	-.4060	-.4240	-.4630
		.900		.0000	-.4120	-.4130	-.4460
MACH (2) = 2.000 BETAT (1) = -8.290		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1160	.3570	.3540	.4240	.4540
		.050	.4230	.4930	.5380	.5520	.5510
		.150	.3190	.3880	.4550	.4770	.4760
		.300	.2210	.2870	.3790	.4200	.3810
		.520	.1960	.2540	.3190	.3990	.3620
		.650	-.0870	-.0520	-.0330	.0010	-.0120
		.775	-.0390	-.0800	-.0160	-.0080	-.0320
		.900		.0000	-.0120	-.0130	-.0320
MACH (2) = 2.000 BETAT (2) = -6.250		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2680	.5170	.4280	.5240	.5000
		.050	.3840	.4600	.4790	.4750	.4790
		.150	.2940	.3650	.4140	.4210	.4150
		.300	.2220	.2800	.3420	.3580	.3400
		.520	.1900	.2400	.2580	.3290	.3000
		.650	-.0900	-.0690	-.0620	-.0230	-.0260
		.775	-.0610	-.1120	-.0490	-.0330	-.0560
		.900		.0000	-.0470	-.0410	-.0570
MACH (2) = 2.000 BETAT (3) = -.130		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.7590	.7370	.5680	.6120	.4970
		.050	.1240	.1150	.0500	.0280	.0300
		.150	.2550	.2330	.1740	.1060	.1100
		.300	.1750	.1540	.1740	.1990	.2180

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV06)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1070	.1060	.1110	.1500	.1650
.650	-.1300	-.1360	-.1320	-.1050	-.1000
.775	-.1300	-.1790	-.1350	-.1210	-.1250
.900		.0000	-.1450	-.1260	-.1330

MACH (2) = 2.000 BETAT (4) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2380	.6650	.5760	.5820	.4320
.050	.1420	-.0920	-.1570	-.1460	-.1370
.150	.1170	-.0730	-.0890	-.0880	-.0790
.300	.0670	.0560	-.0520	-.0630	-.0270
.520	.0090	.0280	.0120	-.0210	.0040
.650	-.1520	-.1960	-.1840	-.1920	-.1960
.775	-.1680	-.1950	-.1950	-.1920	-.2010
.900		.0000	-.1940	-.1870	-.1910

MACH (2) = 2.000 BETAT (5) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1210	.5870	.5520	.5320	.3710
.050	.0240	-.1190	-.1730	-.2090	-.2090
.150	.0910	-.1310	-.1620	-.1640	-.1550
.300	.0090	-.1290	-.1330	-.1410	-.1010
.520	-.0450	-.0750	-.0800	-.1060	-.0600
.650	-.1870	-.2080	-.2170	-.2350	-.2230
.775	-.1830	-.1980	-.2230	-.2360	-.2450
.900		.0000	-.2200	-.2360	-.2370

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1293

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOVD7) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3640	.4610	.4150	.5260	.4580
.050	.4090	.4480	.4610	.5110	.4980
.150	.3210	.3610	.4140	.4500	.4190
.300	.2520	.2950	.3610	.3770	.3120
.520	.2070	.2670	.2720	.3330	.2400
.650	-.1530	-.1880	-.2020	-.1990	-.2020
.775	-.1620	-.2260	-.1660	-.1930	-.2220
.900		.0000	-.1560	-.1960	-.2150

MACH (1) = 1.555 BETAT (2) = -5.090

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3710	.5390	.4480	.5820	.4900
.050	.4260	.4050	.3970	.4270	.4220
.150	.3290	.3270	.3460	.3780	.3590
.300	.2440	.2520	.3060	.3250	.2800
.520	.1850	.2310	.2380	.3050	.2330
.650	-.1840	-.2100	-.2150	-.2050	-.2080
.775	-.1820	-.2540	-.1880	-.2060	-.2300
.900		.0000	-.1840	-.2070	-.2240

MACH (1) = 1.555 BETAT (3) = -3.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4650	.6630	.5020	.6050	.4800
.050	.3640	.2860	.2340	.2800	.3000
.150	.3010	.2710	.2770	.2870	.2760
.300	.2160	.1960	.2280	.2410	.2250
.520	.1370	.1560	.1630	.2470	.1930
.650	-.1980	-.2380	-.2360	-.2190	-.2190
.775	-.2120	-.2880	-.2150	-.2260	-.2470
.900		.0000	-.2140	-.2280	-.2520

MACH (1) = 1.555 BETAT (4) = 5.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2880	.6350	.5600	.5640	.3790
.050	.1780	-.1750	-.2500	-.3170	-.3170
.150	.1450	-.1360	-.1830	-.2160	-.2100
.300	.0470	.0530	-.0320	-.1540	-.1110
.520	-.0160	.0270	-.0020	-.0330	-.0270
.650	-.2080	-.3390	-.3140	-.2870	-.3320
.775	-.2420	-.2900	-.3030	-.2760	-.2940
.900		.0000	-.3090	-.2740	-.2590

AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL

(RBOV07)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3300	.5850	.5560	.4980	.3090
.050	.2240	-.1700	-.2850	-.3900	-.4900
.150	.1280	-.1510	-.2150	-.3000	-.3100
.300	.0110	.0190	-.1420	-.2450	-.2070
.520	-.0620	-.0380	-.0990	-.1670	-.1430
.650	-.2500	-.3620	-.3350	-.3590	-.3810
.775	-.2600	-.2960	-.3300	-.3220	-.3930
.900		.0000	-.3390	-.3320	-.3570

MACH (1) = 1.555 BETAT (6) = 9.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2020	.4650	.4750	.3850	.2120
.050	-.0490	-.2630	-.3200	-.4400	-.4720
.150	.0430	-.2970	-.2990	-.3930	-.4150
.300	-.0550	-.2430	-.2670	-.3420	-.3660
.520	-.1290	-.1250	-.2550	-.2510	-.2250
.650	-.3130	-.3760	-.4000	-.4240	-.4270
.775	-.2750	-.3320	-.3980	-.4080	-.4560
.900		.0000	-.3910	-.4030	-.4310

MACH (2) = 2.000 BETAT (1) = -8.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1980	.4150	.4000	.4820	.5070
.050	.4780	.5670	.5940	.6020	.5950
.150	.3690	.4460	.5070	.5390	.5170
.300	.2840	.3380	.4310	.4660	.4230
.520	.2650	.3190	.3630	.4460	.3990
.650	-.0520	-.0230	-.0150	.0140	.0020
.775	-.0150	-.0550	.0010	.0090	-.0160
.900		.0000	.0050	.0020	-.0150

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3630	.5520	.4800	.5700	.5450
.050	.4850	.5260	.5230	.5280	.5220
.150	.3790	.4170	.4600	.4700	.4540
.300	.2860	.3130	.3810	.3980	.3750
.520	.2410	.2800	.2970	.3670	.3340
.650	-.0790	-.0500	-.0450	-.0090	-.0090
.775	-.0410	-.0840	-.0340	-.0170	-.0410
.900		.0000	-.0340	-.0260	-.0420

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4020	.6530	.5560	.6390	.5620
.050	.3930	.4370	.4120	.4150	.4220
.150	.3280	.3540	.3850	.3960	.3850
.300	.2490	.2660	.3250	.3350	.3180

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1295

AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL

(RBOV07)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1920	.2260	.2450	.2880	.2690
.650	-.0940	-.0810	-.0730	-.0380	-.0340
.775	-.0730	-.1160	-.0640	-.0510	-.0660
.900		.0000	-.0690	-.0630	-.0740

MACH (2) = 2.000 BETAT (4) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3820	.7310	.6200	.6320	.4810
.050	.1770	-.0480	-.1400	-.1230	-.1130
.150	.1660	-.0190	-.0630	-.0600	-.0500
.300	.1070	.0940	-.0180	-.0350	-.0020
.520	.0340	.0590	.0500	.0070	.0270
.650	-.1230	-.1760	-.1640	-.1780	-.1820
.775	-.1490	-.1940	-.1730	-.1760	-.1830
.900		.0000	-.1780	-.1680	-.1710

MACH (2) = 2.000 BETAT (5) = 5.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2560	.6450	.6120	.5820	.4310
.050	.0720	-.0850	-.1490	-.1880	-.1860
.150	.0830	-.0970	-.1390	-.1370	-.1280
.300	.0350	-.0890	-.0870	-.1110	-.0710
.520	-.0320	-.0470	-.0450	-.0700	-.0270
.650	-.1550	-.1940	-.1990	-.2180	-.2100
.775	-.1740	-.1830	-.2080	-.2180	-.2290
.900		.0000	-.2090	-.2150	-.2180

MACH (2) = 2.000 BETAT (6) = 8.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0830	.5520	.5830	.5270	.3630
.050	-.0240	-.1290	-.1760	-.2410	-.2440
.150	-.0200	-.1440	-.1830	-.2000	-.1970
.300	-.0440	-.1550	-.1490	-.1740	-.1390
.520	-.0990	-.1520	-.1410	-.1400	-.0940
.650	-.2030	-.2350	-.2480	-.2560	-.2410
.775	-.2140	-.2230	-.2620	-.2520	-.2700
.900		.0000	-.2140	-.2300	-.2550

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV08) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.130	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.4290	.4260	.4080	.5010	.4620
		.050	.5340	.5270	.5610	.6130	.5780
		.150	.4120	.4340	.5000	.5240	.4830
		.300	.3350	.3720	.4420	.4480	.3560
		.520	.2850	.3300	.3220	.3730	.2670
		.650	-.1220	-.1660	-.1890	-.1820	-.1850
		.775	-.1300	-.1980	-.1420	-.1700	-.2010
		.900		.0000	-.1280	-.1690	-.1860
MACH (1) = 1.555	BETAT (2) = -6.150	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.5510	.5370	.4920	.6170	.5180
		.050	.5140	.4750	.4760	.5180	.5040
		.150	.3840	.3950	.4390	.4500	.4310
		.300	.3040	.3200	.3790	.3900	.3270
		.520	.2560	.2960	.2880	.3490	.2570
		.650	-.1560	-.1800	-.1980	-.1910	-.1950
		.775	-.1480	-.2240	-.1620	-.1870	-.2150
		.900		.0000	-.1530	-.1890	-.2090
MACH (1) = 1.555	BETAT (3) = -3.070	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.5470	.6980	.5410	.6610	.5220
		.050	.4230	.3300	.2790	.3250	.3290
		.150	.3430	.3090	.3130	.3190	.3060
		.300	.2550	.2330	.2590	.2710	.2510
		.520	.1790	.1880	.1890	.2760	.2190
		.650	-.1850	-.2240	-.2270	-.2070	-.2040
		.775	-.1980	-.2790	-.2040	-.2170	-.2360
		.900		.0000	-.2020	-.2160	-.2410
MACH (1) = 1.555	BETAT (4) = 5.030	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3450	.6800	.5840	.5980	.4060
		.050	.1310	-.1790	-.2990	-.3160	-.3170
		.150	.1610	-.1340	-.2550	-.2140	-.2080
		.300	.0560	-.0080	-.0460	-.1550	-.0940
		.520	-.0070	.0200	.0200	-.0620	-.0300
		.650	-.2010	-.3060	-.3040	-.3050	-.3340
		.775	-.2300	-.3170	-.3080	-.2610	-.3210
		.900		.0000	-.3020	-.2640	-.2790

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV08)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3390	.6310	.5990	.5490	.3430
.050	.2070	-.1740	-.2890	-.3870	-.3940
.150	.1480	-.1790	-.2130	-.2910	-.3010
.300	.0340	.0220	-.1170	-.2360	-.1940
.520	-.0450	-.0060	-.0920	-.1680	-.1400
.650	-.2340	-.3540	-.3410	-.3660	-.3700
.775	-.2490	-.3070	-.3270	-.3240	-.3940
.900		.0000	-.3300	-.3260	-.3610

MACH (1) = 1.555 BETAT (6) = 9.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2320	.5250	.5300	.4390	.2470
.050	-.0210	-.2320	-.3080	-.4460	-.4650
.150	.0130	-.2490	-.2740	-.3810	-.4040
.300	-.0410	-.2450	-.2340	-.3310	-.3560
.520	-.1100	-.1750	-.2400	-.2600	-.2090
.650	-.2890	-.3660	-.3970	-.4110	-.4140
.775	-.2710	-.3240	-.3970	-.3920	-.4490
.900		.0000	-.3620	-.4000	-.4190

MACH (2) = 2.000 BETAT (1) = -8.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3640	.4680	.4580	.5510	.5640
.050	.5700	.6120	.6280	.6520	.6380
.150	.4170	.4840	.5430	.5710	.5560
.300	.3210	.3760	.4700	.4960	.4590
.520	.3130	.3580	.3940	.4900	.4340
.650	-.0450	-.0060	-.0050	.0300	.0140
.775	.0050	-.0290	.0140	.0230	-.0060
.900		.0000	.0200	.0180	-.0040

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4400	.5980	.5230	.6370	.5990
.050	.5510	.5630	.5580	.5680	.5610
.150	.4250	.4520	.4860	.5100	.4920
.300	.3280	.3470	.4160	.4310	.4080
.520	.2800	.3140	.3290	.4000	.3730
.650	-.0630	-.0330	-.0270	.0070	.0030
.775	-.0200	-.0860	-.0150	-.0050	-.0300
.900		.0000	-.0170	-.0090	-.0310

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5280	.7190	.6150	.6950	.6130
.050	.4450	.4670	.4330	.4480	.4550
.150	.3700	.3900	.4170	.4280	.4160
.300	.2890	.3040	.3600	.3650	.3520

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV08)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.2290	.2620	.2730	.3190	.3050
.650	-.0760	-.0640	-.0590	-.0220	-.0180
.775	-.0550	-.1170	-.0440	-.0360	-.0510
.900		.0000	-.0530	-.0470	-.0580

MACH (2) = 2.000 BETAT (4) = 3.920

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5110	.8050	.6770	.6920	.5410
.050	.1670	-.0200	-.1190	-.1010	-.0910
.150	.2150	.0450	-.0380	-.0330	-.0240
.300	.1520	.1320	.0090	-.0010	.0300
.520	.0760	.0930	.0880	.0420	.0590
.650	-.1010	-.1530	-.1410	-.1640	-.1700
.775	-.1290	-.2010	-.1560	-.1590	-.1700
.900		.0000	-.1590	-.1470	-.1560

MACH (2) = 2.000 BETAT (5) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3740	.6980	.6530	.6380	.4890
.050	.0090	-.1020	-.1630	-.1740	-.1700
.150	.1250	-.1070	-.1280	-.1190	-.1070
.300	.0730	-.0680	-.0830	-.0910	-.0470
.520	.0130	-.0080	-.0120	-.0470	-.0030
.650	-.1270	-.1720	-.1910	-.2110	-.2020
.775	-.1690	-.2000	-.2020	-.2090	-.2200
.900		.0000	-.1950	-.2070	-.2090

MACH (2) = 2.000 BETAT (6) = 8.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1970	.5960	.6260	.5710	.4070
.050	-.0170	-.1200	-.1740	-.2240	-.2250
.150	-.0310	-.1340	-.1830	-.1770	-.1740
.300	-.0390	-.1410	-.1290	-.1550	-.1160
.520	-.0640	-.1370	-.1130	-.1190	-.0650
.650	-.1790	-.2250	-.2410	-.2440	-.2290
.775	-.2020	-.2210	-.2540	-.2510	-.2630
.900		.0000	-.2060	-.2450	-.2500

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV09) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5160	.4730	.4440	.5400	.5050
.050	.6090	.5730	.6130	.6520	.6170
.150	.4770	.4870	.5460	.5550	.5240
.300	.3920	.4240	.4730	.4820	.3840
.520	.3440	.3680	.3480	.4010	.2870
.650	-.0980	-.1520	-.1790	-.1730	-.1760
.775	-.1060	-.1800	-.1310	-.1590	-.1900
.900		.0000	-.1120	-.1590	-.1760

MACH (1) = 1.555 BETAT (2) = -6.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6060	.5800	.5270	.6540	.5630
.050	.5580	.5230	.5190	.5600	.5480
.150	.4280	.4370	.4730	.4990	.4640
.300	.3470	.3670	.4200	.4260	.3580
.520	.2940	.3340	.3170	.3740	.2780
.650	-.1310	-.1680	-.1890	-.1800	-.1810
.775	-.1300	-.1850	-.1480	-.1760	-.2080
.900		.0000	-.1390	-.1800	-.2000

MACH (1) = 1.555 BETAT (3) = -4.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5710	.6920	.5610	.6850	.5610
.050	.5120	.4300	.4070	.4480	.4430
.150	.4010	.3780	.3870	.4070	.3850
.300	.3120	.3020	.3360	.3480	.3110
.520	.2380	.2710	.2560	.3220	.2560
.650	-.1510	-.1940	-.2060	-.1910	-.1870
.775	-.1660	-.2230	-.1740	-.1910	-.2160
.900		.0000	-.1730	-.1990	-.2140

MACH (1) = 1.555 BETAT (4) = 3.640

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5850	.7730	.6490	.6600	.4620
.050	.2240	-.1410	-.2640	-.2760	-.2750
.150	.2300	.0490	-.1720	-.1700	-.1710
.300	.1260	.0830	.0380	-.1180	-.0750
.520	.0440	.0350	.0330	-.0190	-.0110
.650	-.2080	-.2970	-.2950	-.2760	-.3170
.775	-.2360	-.3410	-.2960	-.2570	-.2840
.900		.0000	-.3020	-.2600	-.2340

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOVD9)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 5.690

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4220	.6990	.6630	.6410	.4480
.050	.0930	-.1510	-.2540	-.3190	-.3300
.150	.1810	-.1170	-.1890	-.2160	-.2190
.300	.1030	.0280	-.0210	-.1590	-.1050
.520	.0240	.0410	-.0010	-.0640	-.0480
.650	-.1680	-.3050	-.3200	-.2990	-.3350
.775	-.2310	-.3030	-.3030	-.2640	-.3300
.900		.0000	-.2960	-.2760	-.2820

MACH (1) = 1.555 BETAT (6) = 7.740

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3070	.6600	.6360	.5660	.3590
.050	.1120	-.1780	-.3000	-.3990	-.4080
.150	.1360	-.1780	-.2330	-.3110	-.3220
.300	.0470	-.1140	-.1370	-.2510	-.2040
.520	-.0330	-.0490	-.1180	-.1850	-.1400
.650	-.2300	-.3410	-.3550	-.3830	-.3720
.775	-.2470	-.3110	-.3440	-.3620	-.4070
.900		.0000	-.3370	-.3590	-.3760

MACH (2) = 2.000 BETAT (1) = -8.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4270	.5160	.5100	.6260	.6270
.050	.6400	.6400	.6660	.7000	.6830
.150	.4710	.5190	.5830	.6160	.6000
.300	.3510	.4080	.5130	.5360	.4990
.520	.3450	.3930	.4330	.5340	.4660
.650	-.0230	.0150	.0090	.0420	.0300
.775	.0310	-.0350	.0310	.0400	.0090
.900		.0000	.0370	.0310	.0140

MACH (2) = 2.000 BETAT (2) = -6.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5530	.6690	.5780	.7150	.6650
.050	.5980	.5990	.5930	.6090	.6020
.150	.4660	.4880	.5310	.5460	.5300
.300	.3670	.3880	.4520	.4690	.4480
.520	.3180	.3570	.3670	.4380	.4020
.650	-.0430	-.0150	-.0100	.0200	.0190
.775	.0000	-.0660	.0040	.0070	-.0130
.900		.0000	.0040	.0050	-.0150

MACH (2) = 2.000 BETAT (3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6780	.7960	.6720	.7680	.6700
.050	.5080	.5090	.4660	.4780	.4830
.150	.4220	.4300	.4480	.4650	.4540
.300	.3300	.3420	.3950	.4050	.3900

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1301

AMES 97-707 1A9 CEA + S3 + T9 LEFT VERTICAL

(RBOVD9)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.2690	.3020	.3080	.3540	.3400
.650	-.0580	-.0470	-.0410	-.0060	.0000
.775	-.0360	-.0980	-.0250	-.0200	-.0370
.900		.0000	-.0300	-.0320	-.0450

MACH (2) = 2.000 BETAT (4) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6390	.8720	.7240	.7530	.5970
.050	.1540	.0010	-.1010	-.0780	-.0660
.150	.2550	.0760	-.0120	-.0030	.0040
.300	.1880	.1630	.0310	.0270	.0590
.520	.1150	.1210	.1180	.0740	.0910
.650	-.0920	-.1360	-.1210	-.1500	-.1530
.775	-.1140	-.1870	-.1390	-.1420	-.1550
.900		.0000	-.1440	-.1270	-.1390

MACH (2) = 2.000 BETAT (5) = 0.820

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2610	.6700	.6910	.6590	.4830
.050	.0190	-.0920	-.1510	-.2020	-.2010
.150	-.0060	-.1040	-.1640	-.1490	-.1430
.300	-.0170	-.1100	-.0930	-.1260	-.0820
.520	-.0390	-.1070	-.0790	-.0860	-.0210
.650	-.1550	-.2000	-.2260	-.2270	-.2090
.775	-.1860	-.1930	-.2370	-.2330	-.2430
.900		.0000	-.1810	-.2300	-.2270

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV10) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5810	.5290	.4830	.5950	.5550
.050	.6540	.6230	.6530	.6970	.6580
.150	.5290	.5340	.5920	.5960	.5550
.300	.4520	.4710	.5140	.5130	.4140
.520	.3870	.4040	.3750	.4210	.3080
.650	-.0700	-.1390	-.1680	-.1640	-.1600
.775	-.0880	-.1350	-.1150	-.1480	-.1790
.900		.0000	-.0960	-.1490	-.1650

MACH (1) = 1.555 BETAT (2) = -6.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6360	.6190	.5780	.7070	.6100
.050	.5980	.5610	.5660	.6020	.5780
.150	.4780	.4820	.5230	.5260	.4950
.300	.3940	.4100	.4510	.4570	.3870
.520	.3320	.3720	.3400	.3940	.3000
.650	-.0990	-.1520	-.1790	-.1720	-.1680
.775	-.1130	-.1720	-.1330	-.1680	-.1970
.900		.0000	-.1270	-.1720	-.1880

MACH (1) = 1.555 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6750	.7270	.6150	.7350	.6140
.050	.5600	.4680	.4410	.4870	.4800
.150	.4460	.4170	.4200	.4410	.4240
.300	.3540	.3400	.3720	.3810	.3380
.520	.2710	.3020	.2890	.3530	.2840
.650	-.1310	-.1820	-.1960	-.1810	-.1750
.775	-.1500	-.2110	-.1590	-.1810	-.2110
.900		.0000	-.1630	-.1910	-.2070

MACH (1) = 1.555 BETAT (4) = 3.650

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6970	.8120	.7090	.7100	.5170
.050	.1660	-.1240	-.2600	-.2640	-.2670
.150	.2520	.0730	-.1580	-.1540	-.1520
.300	.1590	.1120	.0650	-.0970	-.0490
.520	.0730	.0610	.0630	-.0070	.0020
.650	-.2040	-.2790	-.2880	-.2630	-.3070
.775	-.2260	-.3270	-.2830	-.2380	-.2810
.900		.0000	-.2880	-.2490	-.2190

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV10)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 5.710

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4990	.7500	.7070	.6940	.4960
.050	-.0040	-.1560	-.2580	-.3160	-.3230
.150	.2140	-.1170	-.2010	-.2050	-.2060
.300	.1220	.0380	-.0080	-.1410	-.0890
.520	.0470	.0590	.0250	-.0620	-.0310
.650	-.1500	-.2780	-.3180	-.3010	-.3160
.775	-.2170	-.3190	-.2920	-.2560	-.3380
.900		.0000	-.2820	-.2670	-.2860

MACH (1) = 1.555 BETAT (6) = 7.770

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3760	.7140	.6830	.6190	.4070
.050	.0640	-.1590	-.3040	-.3910	-.4010
.150	.1630	-.1590	-.2480	-.2990	-.3110
.300	.0830	-.0980	-.1050	-.2410	-.1930
.520	-.0030	-.0520	-.0880	-.1720	-.1190
.650	-.2100	-.3190	-.3600	-.3760	-.3600
.775	-.2370	-.3170	-.3390	-.3570	-.3960
.900		.0000	-.3290	-.3710	-.3600

MACH (2) = 2.000 BETAT (1) = -8.390

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4510	.5620	.5700	.6890	.6660
.050	.6770	.6870	.6990	.7280	.7150
.150	.5170	.5530	.6170	.6410	.6240
.300	.4070	.4490	.5370	.5650	.5260
.520	.3870	.4260	.4570	.5610	.4910
.650	-.0130	.0230	.0220	.0470	.0400
.775	.0430	-.0080	.0510	.0450	.0160
.900		.0000	.0570	.0420	.0200

MACH (2) = 2.000 BETAT (2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6330	.7080	.6220	.7690	.7150
.050	.6490	.6230	.6230	.6310	.6310
.150	.5020	.5130	.5590	.5710	.5580
.300	.3990	.4160	.4800	.4960	.4700
.520	.3510	.3900	.3890	.4620	.4290
.650	-.0310	-.0020	-.0040	.0260	.0270
.775	.0160	-.0380	.0170	.0130	-.0050
.900		.0000	.0170	.0070	-.0090

MACH (2) = 2.000 BETAT (3) = -4.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7560	.8530	.7110	.8190	.7240
.050	.5640	.5380	.4880	.5000	.5150
.150	.4620	.4610	.4780	.4890	.4880
.300	.3660	.3730	.4130	.4290	.4190

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV10)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.3070	.3280	.3260	.3840	.3660
.650	-.0460	-.0340	-.0330	.0060	.0110
.775	-.0210	-.0770	-.0110	-.0110	-.0290
.900		.0000	-.0140	-.0240	-.0380

MACH (2) = 2.000 BETAT (4) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9900	.9490	.7690	.8510	.6820
.050	.2650	.2110	.1430	.1180	.1130
.150	.4120	.3610	.3430	.2180	.2120
.300	.3160	.2860	.3020	.3120	.3390
.520	.2330	.2300	.2230	.2600	.2720
.650	-.0700	-.0800	-.0800	-.0530	-.0430
.775	-.0620	-.1280	-.0820	-.0690	-.0710
.900		.0000	-.0910	-.0700	-.0750

MACH (2) = 2.000 BETAT (5) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6950	.9110	.7610	.8040	.6260
.050	.1350	.0030	-.0970	-.0720	-.0650
.150	.2770	.0860	-.0020	.0060	.0090
.300	.2100	.1820	.0460	.0320	.0700
.520	.1420	.1440	.1320	.0800	.1050
.650	-.0710	-.1220	-.1140	-.1500	-.1470
.775	-.1090	-.1710	-.1350	-.1430	-.1520
.900		.0000	-.1390	-.1300	-.1340

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5030	.8120	.7420	.7500	.5890
.050	-.0300	-.0810	-.1460	-.1440	-.1400
.150	.1980	-.0780	-.0960	-.0770	-.0660
.300	.1330	-.0340	-.0450	-.0460	-.0030
.520	.0740	.0430	.0470	.0010	.0490
.650	-.0790	-.1380	-.1730	-.1910	-.1780
.775	-.1430	-.1780	-.1800	-.1890	-.2000
.900		.0000	-.1700	-.1860	-.1850

MACH (2) = 2.000 BETAT (7) = 8.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3130	.7040	.7090	.6710	.5110
.050	.0400	-.0810	-.1430	-.2040	-.2050
.150	.0100	-.0940	-.1590	-.1490	-.1450
.300	-.0040	-.1000	-.0800	-.1200	-.0810
.520	-.0380	-.1020	-.0630	-.0760	-.0150

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1305

AMES 97-707 IA9 ORA + S3 + T9 LEFT VERTICAL

(RBOV10)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1440	-.1940	-.2210	-.2240	-.2030
.775	-.1790	-.1870	-.2330	-.2300	-.2420
.900		.0000	-.1740	-.2310	-.2240

AMES 97-707 1A9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV11) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5690	.5070	.4750	.5820	.5520
.050	.6670	.6280	.6690	.7100	.6680
.150	.5350	.5450	.5970	.6080	.5700
.300	.4520	.4820	.5150	.5390	.4360
.520	.3890	.4290	.4850	.5470	.3030
.650	-.0670	-.3770	-.3860	-.4030	-.1980
.775	-.0830	-.3600	-.3860	-.4060	-.2210
.900		.0000	-.3800	-.3860	-.2400

MACH (1) = 1.555 BETAT (2) = -6.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6490	.6290	.5620	.7030	.6060
.050	.6040	.5690	.5910	.6160	.5860
.150	.4790	.4860	.5270	.5450	.5120
.300	.3980	.4160	.4620	.4860	.4070
.520	.3330	.3910	.4560	.5150	.2960
.650	-.0970	-.3840	-.3930	-.4100	-.2100
.775	-.1090	-.3750	-.3980	-.4180	-.2360
.900		.0000	-.3940	-.3960	-.2590

MACH (1) = 1.555 BETAT (3) = -4.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6830	.7340	.6100	.7430	.6320
.050	.5640	.4700	.4600	.4920	.4830
.150	.4510	.4230	.4310	.4480	.4300
.300	.3560	.3460	.3790	.4020	.3640
.520	.2710	.3150	.3870	.4700	.2890
.650	-.1280	-.3960	-.4020	-.4110	-.2160
.775	-.1460	-.4010	-.4110	-.4240	-.2460
.900		.0000	-.4100	-.3980	-.2700

MACH (1) = 1.555 BETAT (4) = -.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9340	.8150	.6860	.7560	.5960
.050	.2270	.1260	.0480	.0390	.0430
.150	.3550	.2840	.2710	.2770	.2790
.300	.2490	.2160	.2200	.2180	.2510
.520	.1570	.1750	.2100	.4700	.2420
.650	-.1980	-.4200	-.4230	-.4210	-.2230
.775	-.2020	-.4320	-.4420	-.4480	-.2630
.900		.0000	-.4190	-.4370	-.2700

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1307

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV11)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6190	.8020	.7060	.7070	.5110
.050	.1720	-.1390	-.2850	-.2760	-.2830
.150	.2460	.0390	-.1730	-.1720	-.1710
.300	.1500	.1000	-.0110	-.1200	-.0650
.520	.0580	.0590	.0980	.0090	.0180
.650	-.2030	-.4430	-.4440	-.4510	-.3280
.775	-.2250	-.4630	-.4600	-.4580	-.3300
.900		.0000	-.4000	-.4480	-.2680

MACH (1) = 1.555 BETAT (6) = 6.000

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4810	.7490	.7150	.6870	.4830
.050	.0630	-.1180	-.2680	-.3310	-.3390
.150	.2200	-.0980	-.2130	-.2240	-.2220
.300	.1390	.0250	-.0230	-.1630	-.1130
.520	.0380	.0500	.0410	-.0180	-.0160
.650	-.1580	-.4480	-.4540	-.4520	-.3490
.775	-.2280	-.4610	-.4660	-.3990	-.3590
.900		.0000	-.3820	-.3310	-.3160

MACH (1) = 1.555 BETAT (7) = 8.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3960	.6850	.6640	.5880	.3740
.050	-.0630	-.1880	-.3120	-.4080	-.4160
.150	.1220	-.1850	-.2400	-.3170	-.3340
.300	.0650	-.1500	-.1350	-.2650	-.2350
.520	-.0170	-.0870	-.1130	-.1840	-.1170
.650	-.2270	-.4590	-.4700	-.3360	-.3870
.775	-.2470	-.4720	-.4490	-.3330	-.3980
.900		.0000	-.4160	-.3310	-.3600

MACH (2) = 2.000 BETAT (1) = -8.390

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4580	.5530	.5660	.6950	.6690
.050	.6840	.6920	.7110	.7360	.7200
.150	.5190	.5590	.6330	.6480	.6380
.300	.4150	.4570	.5490	.5810	.5470
.520	.3840	.4470	.5170	.6670	.4880
.650	-.0100	-.1690	-.1680	-.1690	.0060
.775	.0510	-.1840	-.1850	-.1910	-.0300
.900		.0000	-.1850	-.1820	-.0520

MACH (2) = 2.000 BETAT (2) = -6.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6580	.7040	.6170	.7700	.7190
.050	.6620	.6370	.6330	.6440	.6410
.150	.5120	.5210	.5680	.5820	.5690
.300	.4080	.4240	.4920	.5040	.4830

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV11)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.340		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.520	.3480	.4040	.4600	.5750	.4670
		.650	-.0290	-.1790	-.1750	-.1740	.0030
		.775	.0210	-.2010	-.1960	-.2000	-.0420
		.900		.0000	-.2000	-.1940	-.0670
MACH (2) = 2.000 BETAT (3) = -4.290		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.7440	.8400	.7100	.8180	.7210
		.050	.5740	.5490	.4980	.5050	.5280
		.150	.4640	.4650	.4800	.4960	.4920
		.300	.3680	.3780	.4200	.4350	.4210
		.520	.2970	.3350	.3950	.4850	.3990
		.650	-.0470	-.1980	-.1960	-.1870	-.0160
		.775	-.0200	-.2280	-.2150	-.2170	-.0630
		.900		.0000	-.2180	-.2120	-.0910
MACH (2) = 2.000 BETAT (4) = -.180		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.9870	.9460	.7610	.8480	.6810
		.050	.2720	.2210	.1500	.1280	.1220
		.150	.4130	.3620	.3440	.2380	.2230
		.300	.3190	.2880	.3050	.3150	.3460
		.520	.2260	.2370	.2480	.4880	.2890
		.650	-.0690	-.2120	-.2160	-.2020	-.0530
		.775	-.0620	-.2490	-.2460	-.2370	-.0910
		.900		.0000	-.2290	-.2300	-.1100
MACH (2) = 2.000 BETAT (5) = 3.930		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.7210	.9210	.7670	.8040	.6330
		.050	.1030	.0070	-.0920	-.0660	-.0590
		.150	.2870	.0950	.0030	.0140	.0210
		.300	.2220	.1900	.0550	.0450	.0780
		.520	.1420	.1530	.1540	.1050	.1310
		.650	-.0730	-.2300	-.2310	-.2480	-.1430
		.775	-.1040	-.2660	-.2680	-.2590	-.1570
		.900		.0000	-.2510	-.2580	-.1470
MACH (2) = 2.000 BETAT (6) = 5.980		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.4940	.8130	.7410	.7540	.5920
		.050	-.0180	-.0750	-.1310	-.1390	-.1340
		.150	.2110	-.0740	-.0930	-.0730	-.0610
		.300	.1300	-.0160	-.0300	-.0400	.0020
		.520	.0730	.0570	.0690	.0220	.0760

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1309

AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL

(RBOV11)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.0760	-.2460	-.2510	-.2090	-.1790
.775	-.1420	-.2770	-.2730	-.2150	-.2040
.900		.0000	-.2460	-.2090	-.1910

MACH (2) = 2.000 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3360	.7110	.7080	.6800	.5170
.050	.0370	-.0800	-.1420	-.2060	-.2040
.150	.0140	-.0900	-.1580	-.1490	-.1420
.300	.0010	-.0990	-.0830	-.1200	-.0810
.520	-.0370	-.0980	-.0520	-.0630	-.0070
.650	-.1400	-.2500	-.2500	-.1530	-.2050
.775	-.1800	-.2600	-.2580	-.1550	-.2160
.900		.0000	-.2430	-.1580	-.1950

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV12) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4370	.4080	.3860	.4610	.4530
.050	.5410	.5350	.5780	.6270	.5900
.150	.4170	.4430	.5130	.5360	.5080
.300	.3390	.3850	.4450	.4780	.3780
.520	.2900	.3530	.4160	.4960	.2570
.650	-.1120	-.3870	-.3960	-.4110	-.2210
.775	-.1220	-.3730	-.3990	-.4170	-.2430
.900		.0000	-.3920	-.3950	-.2630

MACH (1) = 1.555 BETAT (2) = -6.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5600	.5390	.4830	.6060	.5060
.050	.5210	.4830	.4920	.5280	.5120
.150	.3890	.3990	.4440	.4690	.4460
.300	.3090	.3300	.3870	.4160	.3500
.520	.2570	.3210	.3960	.4620	.2520
.650	-.1490	-.3950	-.4000	-.4140	-.2290
.775	-.1440	-.3870	-.4070	-.4250	-.2530
.900		.0000	-.4060	-.4020	-.2760

MACH (1) = 1.555 BETAT (3) = -4.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4620	.6400	.5120	.6350	.5160
.050	.4630	.4040	.3800	.4190	.4120
.150	.3600	.3440	.3560	.3780	.3610
.300	.2700	.2700	.3070	.3270	.2970
.520	.1960	.2470	.3170	.4050	.2400
.650	-.1670	-.4080	-.4090	-.4180	-.2350
.775	-.1770	-.4130	-.4200	-.4330	-.2650
.900		.0000	-.4200	-.4040	-.2890

MACH (1) = 1.555 BETAT (4) = -1.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8540	.7420	.5840	.6620	.4960
.050	.2000	.0710	.0160	.0090	.0150
.150	.2900	.2240	.2110	.2250	.2270
.300	.1950	.1610	.1650	.1700	.1960
.520	.1040	.1170	.1500	.4110	.1840
.650	-.2340	-.4290	-.4330	-.4280	-.2550
.775	-.2340	-.4440	-.4510	-.4550	-.2850
.900		.0000	-.4300	-.4420	-.3010

AMES 97-707 1A9 C2A + S3 + T9 LEFT VERTICAL

(RBOV12)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4260	.7250	.5910	.5930	.4020
.050	.2310	-.1570	-.2980	-.3030	-.3090
.150	.1950	-.0210	-.2080	-.2050	-.2020
.300	.0880	.0480	-.0440	-.1540	-.1110
.520	-.0060	.0050	.0350	-.0210	-.0100
.650	-.2190	-.4620	-.4530	-.4570	-.3310
.775	-.2510	-.4750	-.4630	-.4440	-.3310
.900		.0000	-.4010	-.3640	-.2500

MACH (1) = 1.555 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3850	.6600	.6090	.5850	.3880
.050	.1310	-.1580	-.2790	-.3460	-.3560
.150	.1750	-.1330	-.2230	-.2450	-.2480
.300	.0740	.0360	-.0680	-.1860	-.1380
.520	-.0080	.0210	-.0090	-.0430	-.0450
.650	-.2040	-.4640	-.4600	-.4530	-.3620
.775	-.2480	-.4630	-.4800	-.3990	-.3730
.900		.0000	-.4010	-.3370	-.3300

MACH (1) = 1.555 BETAT (7) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2510	.5850	.5680	.4980	.2950
.050	.0520	-.2210	-.3100	-.4220	-.4340
.150	.0990	-.2320	-.2610	-.3420	-.3540
.300	.0160	-.1730	-.1840	-.2880	-.2460
.520	-.0710	-.0670	-.1660	-.2000	-.1650
.650	-.2640	-.4750	-.4740	-.3300	-.3990
.775	-.2710	-.4740	-.4550	-.3290	-.4030
.900		.0000	-.4200	-.3300	-.3750

MACH (2) = 2.000 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3340	.4630	.4540	.5560	.5620
.050	.5570	.6040	.6220	.6470	.6260
.150	.4170	.4760	.5400	.5660	.5500
.300	.3220	.3720	.4650	.4970	.4640
.520	.2940	.3540	.4180	.6270	.4250
.650	-.0510	-.1860	-.1820	-.1780	-.0210
.775	.0030	-.2060	-.2030	-.2030	-.0520
.900		.0000	-.2030	-.1920	-.0720

MACH (2) = 2.000 BETAT (2) = -6.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4680	.5940	.5190	.6390	.6040
.050	.5460	.5570	.5550	.5590	.5510
.150	.4170	.4410	.4830	.4950	.4850
.300	.3190	.3400	.4060	.4230	.4020

AMES 97-707 1A9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV12)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.2650	.3170	.3760	.4840	.3890
.650	-.0710	-.1960	-.1960	-.1910	-.0320
.775	-.0210	-.2230	-.2220	-.2160	-.0690
.900		.0000	-.2240	-.2120	-.0930

MACH (2) = 2.000 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5080	.7180	.6100	.6980	.6180
.050	.4480	.4700	.4410	.4430	.4510
.150	.3700	.3870	.4130	.4230	.4150
.300	.2840	.3020	.3500	.3650	.3500
.520	.2250	.2640	.3230	.4100	.3230
.650	-.0770	-.2090	-.2060	-.1970	-.0430
.775	-.0550	-.2400	-.2330	-.2260	-.0840
.900		.0000	-.2330	-.2250	-.1110

MACH (2) = 2.000 BETAT (4) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8670	.8490	.6600	.7260	.5870
.050	.1990	.1700	.1090	.0860	.0750
.150	.3270	.2910	.2730	.1690	.1650
.300	.2410	.2180	.2360	.2490	.2750
.520	.1580	.1680	.1810	.3890	.2270
.650	-.1060	-.2290	-.2330	-.2190	-.0860
.775	-.1020	-.2670	-.2640	-.2560	-.1170
.900		.0000	-.2490	-.2460	-.1360

MACH (2) = 2.000 BETAT (5) = 3.920

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4850	.7880	.6710	.6880	.5320
.050	.1670	-.0250	-.1260	-.1120	-.1030
.150	.2040	.0110	-.0440	-.0430	-.0350
.300	.1380	.1250	-.0010	-.0100	.0170
.520	.0610	.0920	.0880	.0440	.0620
.650	-.1030	-.2500	-.2550	-.2650	-.1790
.775	-.1350	-.2820	-.2890	-.2730	-.1850
.900		.0000	-.2720	-.2680	-.1780

MACH (2) = 2.000 BETAT (6) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3700	.6910	.6500	.6390	.4890
.050	.0160	-.0940	-.1600	-.1770	-.1710
.150	.1200	-.1020	-.1300	-.1210	-.1070
.300	.0690	-.0790	-.0870	-.0930	-.0510
.520	.0010	-.0190	-.0020	-.0370	.0030

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1313

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV12)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1290	-.2600	-.2630	-.2130	-.2040
.775	-.1690	-.2820	-.2830	-.2230	-.2260
.900		.0000	-.2570	-.2190	-.2140

MACH (2) = 2.000 BETAT (7) = 8.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1950	.6080	.6380	.5890	.4240
.050	-.0150	-.1180	-.1700	-.2240	-.2220
.150	-.0300	-.1310	-.1770	-.1760	-.1720
.300	-.0360	-.1370	-.1300	-.1530	-.1130
.520	-.0670	-.1350	-.1070	-.1030	-.0520
.650	-.1770	-.2670	-.2630	-.1770	-.2270
.775	-.1990	-.2740	-.2740	-.1790	-.2310
.900		.0000	-.2600	-.1790	-.2170

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV13) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2090	.3370	.3070	.3810	.3730
.050	.3880	.4220	.4750	.5290	.5050
.150	.3010	.3390	.4160	.4500	.4310
.300	.2360	.2830	.3680	.4020	.3180
.520	.1940	.2730	.3500	.4310	.2140
.650	-.1430	-.4000	-.4020	-.4170	-.2420
.775	-.1620	-.3870	-.4100	-.4250	-.2670
.900		.0000	-.4030	-.4050	-.2850

MACH (1) = 1.555 BETAT (2) = -6.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4180	.4700	.4150	.5150	.4400
.050	.3330	.3790	.3960	.4320	.4210
.150	.2610	.3130	.3550	.3810	.3600
.300	.1960	.2430	.3070	.3400	.2890
.520	.1530	.2350	.3200	.4020	.2080
.650	-.1760	-.4080	-.4090	-.4210	-.2510
.775	-.1820	-.4050	-.4200	-.4370	-.2740
.900		.0000	-.4170	-.4140	-.2970

MACH (1) = 1.555 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3150	.5610	.4370	.5350	.4390
.050	.3510	.3320	.3020	.3450	.3430
.150	.2750	.2730	.2850	.3060	.3020
.300	.1950	.2030	.2410	.2620	.2400
.520	.1350	.1840	.2560	.3430	.2040
.650	-.2110	-.4180	-.4170	-.4220	-.2540
.775	-.2070	-.4250	-.4290	-.4400	-.2810
.900		.0000	-.4290	-.4190	-.3050

MACH (1) = 1.555 BETAT (4) = -1.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7110	.6670	.4950	.5630	.4120
.050	.1780	.0230	-.0270	-.0290	-.0250
.150	.2190	.1650	.1620	.1780	.1780
.300	.1370	.1040	.1110	.1140	.1430
.520	.0530	.0660	.0970	.3450	.1320
.650	-.2690	-.4380	-.4420	-.4380	-.2750
.775	-.2560	-.4570	-.4600	-.4650	-.3110
.900		.0000	-.4430	-.4530	-.3300

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV13)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3120	.6380	.5100	.5090	.3500
.050	.1930	-.1640	-.2930	-.3160	-.2990
.150	.1300	-.0500	-.2460	-.1980	-.1940
.300	.0480	.0110	-.0510	-.1430	-.0830
.520	-.0420	-.0350	.0470	.2110	.0760
.650	-.2620	-.4700	-.4470	-.4360	-.2870
.775	-.2740	-.4740	-.4730	-.4620	-.2850
.900		.0000	-.4180	-.4320	-.2830

MACH (1) = 1.555 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3370	.5730	.5210	.4970	.3120
.050	.2440	-.1620	-.2680	-.3530	-.3590
.150	.1570	-.0170	-.2000	-.2570	-.2610
.300	.0370	.0370	-.0930	-.2000	-.1610
.520	-.0430	-.0260	-.0230	.0880	-.0450
.650	-.2420	-.4460	-.4540	-.4460	-.3580
.775	-.2730	-.3830	-.4770	-.4010	-.3300
.900		.0000	-.4120	-.3350	-.3140

MACH (1) = 1.555 BETAT (7) = 8.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1860	.4710	.4650	.3940	.2300
.050	.0940	-.2570	-.3140	-.4350	-.4440
.150	.0850	-.2820	-.2990	-.3600	-.3720
.300	-.0050	-.0330	-.2260	-.3110	-.2740
.520	-.0950	-.0640	-.1930	-.1960	-.1880
.650	-.3070	-.4780	-.4750	-.3570	-.4190
.775	-.3040	-.4410	-.4870	-.3460	-.4200
.900		.0000	-.3980	-.3450	-.3940

MACH (2) = 2.000 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1200	.3360	.3430	.4190	.4480
.050	.4380	.5230	.5560	.5630	.5470
.150	.3270	.4030	.4710	.4870	.4760
.300	.2370	.2950	.3910	.4280	.3860
.520	.2130	.2790	.3430	.5560	.3760
.650	-.0790	-.1980	-.1930	-.1890	-.0360
.775	-.0320	-.2200	-.2150	-.2150	-.0690
.900		.0000	-.2180	-.2050	-.0890

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2850	.4930	.4230	.5080	.4890
.050	.4020	.4800	.4880	.4850	.4760
.150	.3140	.3740	.4180	.4280	.4200
.300	.2360	.2740	.3478	.3630	.3400

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV13)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.1940	.2470	.2960	.4170	.3310
	.650	-.0880	-.2110	-.2090	-.1990	-.0520
	.775	-.0590	-.2400	-.2310	-.2230	-.0910
	.900		.0000	-.2340	-.2210	-.1130
MACH (2) = 2.000 BETAT (3) = -4.220	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3110	.5960	.5030	.5790	.5200
	.050	.3240	.3970	.3890	.3860	.3930
	.150	.2750	.3210	.3510	.3600	.3530
	.300	.2080	.2390	.2910	.3050	.2870
	.520	.1500	.2010	.2590	.3430	.2630
	.650	-.1100	-.2250	-.2230	-.2110	-.0690
	.775	-.0910	-.2590	-.2480	-.2450	-.1100
	.900		.0000	-.2530	-.2410	-.1340
MACH (2) = 2.000 BETAT (4) = -.140	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7350	.7450	.5620	.6140	.4970
	.050	.1610	.1280	.0620	.0340	.0350
	.150	.2550	.2340	.1930	.1100	.1140
	.300	.1780	.1610	.1770	.1960	.2110
	.520	.1040	.1150	.1300	.3160	.1750
	.650	-.1320	-.2360	-.2400	-.2240	-.1060
	.775	-.1270	-.2740	-.2690	-.2610	-.1390
	.900		.0000	-.2550	-.2510	-.1580
MACH (2) = 2.000 BETAT (5) = 3.930	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2650	.6650	.5720	.5800	.4330
	.050	.1510	-.0810	-.1520	-.1450	-.1370
	.150	.1220	-.0630	-.0850	-.0880	-.0790
	.300	.0700	.0610	-.0510	-.0600	-.0310
	.520	.0030	.0340	.0310	-.0100	.0240
	.650	-.1490	-.2610	-.2610	-.2580	-.1950
	.775	-.1620	-.2830	-.2850	-.2750	-.2020
	.900		.0000	-.2740	-.2510	-.1970
MACH (2) = 2.000 BETAT (6) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1720	.5910	.5590	.5320	.3780
	.050	.0090	-.1270	-.1770	-.2050	-.2030
	.150	.0760	-.1360	-.1630	-.1570	-.1500
	.300	.0130	-.1320	-.1350	-.1360	-.0970
	.520	-.0540	-.0700	-.0650	-.0880	-.0480

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1317

AMES 97-707 IA9 C2A + S3 + T9 LEFT VERTICAL

(RBOV13)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1840	-.2710	-.2720	-.2180	-.2260
.775	-.1820	-.2820	-.2840	-.2270	-.2410
.900		.0000	-.2670	-.2250	-.2320

MACH (2) = 2.000 BETAT (7) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0430	.4830	.5210	.4600	.3110
.050	-.0230	-.1460	-.1920	-.2520	-.2510
.150	-.0140	-.1630	-.1950	-.2080	-.2110
.300	-.0600	-.1730	-.1710	-.1840	-.1580
.520	-.1200	-.1660	-.1560	-.1420	-.1070
.650	-.2240	-.2820	-.2890	-.1880	-.2440
.775	-.2160	-.2860	-.2890	-.1900	-.2450
.900		.0000	-.2660	-.1920	-.2310

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV14) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2380	.2650	.2230	.2910	.2940
		.050	.2210	.3360	.4020	.4520	.4340
		.150	.1950	.2640	.3450	.3830	.3750
		.300	.1460	.2110	.2980	.3360	.2670
		.520	.1180	.2100	.2780	.3760	.1750
		.650	-.1460	-.4140	-.4150	-.4250	-.2610
		.775	-.1870	-.3940	-.4240	-.4350	-.2860
		.900		.0000	-.4200	-.4180	-.3040

MACH (1) = 1.555	BETAT (2) = -6.260	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2950	.3670	.3470	.4320	.3680
		.050	.2400	.2740	.3220	.3580	.3540
		.150	.1940	.2290	.2890	.3130	.2960
		.300	.1410	.1790	.2420	.2750	.2370
		.520	.0970	.1650	.2600	.3390	.1730
		.650	-.2090	-.4160	-.4180	-.4250	-.2640
		.775	-.2110	-.4140	-.4310	-.4400	-.2910
		.900		.0000	-.4290	-.4210	-.3120

MACH (1) = 1.555	BETAT (3) = -4.220	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2560	.4740	.3620	.4680	.3860
		.050	.1690	.2520	.2350	.2680	.2780
		.150	.1490	.2010	.2210	.2490	.2400
		.300	.0980	.1340	.1760	.2100	.1860
		.520	.0410	.1110	.1960	.2870	.1680
		.650	-.2380	-.4320	-.4250	-.4300	-.2740
		.775	-.2300	-.4410	-.4400	-.4500	-.3010
		.900		.0000	-.4400	-.4310	-.3260

MACH (1) = 1.555	BETAT (4) = -.120	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.6110	.5920	.4250	.4780	.3370
		.050	.1160	-.0060	-.0530	-.0620	-.0620
		.150	.1660	.1180	.1150	.1250	.1250
		.300	.0870	.0560	.0660	.0630	.0900
		.520	.0080	.0190	.0500	.2830	.0770
		.650	-.2900	-.4470	-.4520	-.4510	-.2960
		.775	-.2590	-.4690	-.4730	-.4760	-.3270
		.900		.0000	-.4540	-.4620	-.3480

AMES 97-707 1A9 C2A + S3 + T9 LEFT VERTICAL

(RBOV14)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2490	.5480	.4410	.4640	.3100
.050	.1920	-.1660	-.2550	-.3100	-.3000
.150	.1240	.0110	-.1980	-.1960	-.2000
.300	.0320	-.0060	-.0030	-.1380	-.1090
.520	-.0330	-.0290	.0210	.2250	.1200
.650	-.2550	-.4580	-.4580	-.4470	-.2750
.775	-.2680	-.3880	-.4810	-.4640	-.3070
.900		.0000	-.4310	-.3960	-.3210

MACH (1) = 1.555 BETAT (6) = 6.000

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1470	.3940	.4420	.4310	.2660
.050	.1670	-.0520	-.2680	-.3590	-.3680
.150	.1400	.0210	-.1980	-.2720	-.2790
.300	.0520	-.0230	-.1110	-.2190	-.1920
.520	-.0240	-.0760	-.0340	.1010	.0150
.650	-.2580	-.4270	-.4590	-.4500	-.3440
.775	-.2750	-.3850	-.4870	-.4050	-.3300
.900		.0000	-.4140	-.3400	-.3360

MACH (1) = 1.555 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2840	.3900	.3890	.3330	.1630
.050	.2030	-.2680	-.3260	-.4240	-.4560
.150	.1000	-.0690	-.2960	-.3790	-.3890
.300	.0040	-.0900	-.2580	-.3260	-.3010
.520	-.0980	-.1250	-.2060	-.1080	-.1780
.650	-.3270	-.4650	-.4660	-.3920	-.4310
.775	-.3180	-.4410	-.4890	-.3790	-.4350
.900		.0000	-.4410	-.3630	-.3960

MACH (2) = 2.000 BETAT (1) = -8.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1520	.2970	.2780	.3540	.3700
.050	.3060	.4020	.4550	.4980	.4610
.150	.2340	.3000	.3730	.4250	.4010
.300	.1450	.2110	.3240	.3560	.3140
.520	.1390	.2060	.2830	.4940	.3260
.650	-.1260	-.2140	-.2050	-.1980	-.0630
.775	-.0650	-.2370	-.2260	-.2260	-.0940
.900		.0000	-.2300	-.2190	-.1090

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1360	.3780	.3310	.3870	.3920
.050	.3620	.4040	.4180	.4240	.4190
.150	.2760	.2990	.3510	.3670	.3630
.300	.1770	.2020	.2810	.3090	.2870

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV14)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1280	.1730	.2280	.3690	.2870
.650	-.1310	-.2260	-.2150	-.2040	-.0660
.775	-.0840	-.2510	-.2390	-.2330	-.1050
.900		.0000	-.2410	-.2260	-.1230

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2010	.5050	.4210	.4670	.4270
.050	.1960	.3180	.3290	.3360	.3420
.150	.1850	.2530	.2960	.3030	.3070
.300	.1430	.1810	.2380	.2550	.2400
.520	.0940	.1500	.2090	.2980	.2210
.650	-.0920	-.2300	-.2250	-.2130	-.0830
.775	-.1080	-.2630	-.2520	-.2420	-.1210
.900		.0000	-.2550	-.2420	-.1430

MACH (2) = 2.000 BETAT (4) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7160	.6430	.4830	.5210	.4160
.050	.0390	.0600	.0210	.0040	.0090
.150	.1870	.1890	.1170	.0710	.0800
.300	.1220	.1180	.1380	.1550	.1750
.520	.0550	.0730	.0950	.2630	.1370
.650	-.1750	-.2460	-.2440	-.2310	-.1230
.775	-.1550	-.2820	-.2740	-.2650	-.1600
.900		.0000	-.2620	-.2560	-.1790

MACH (2) = 2.000 BETAT (5) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1710	.5670	.4830	.4640	.3380
.050	.1250	-.1050	-.1590	-.1800	-.1750
.150	.0770	-.0820	-.1220	-.1260	-.1210
.300	.0310	.0090	-.0860	-.0940	-.0700
.520	-.0190	-.0180	-.0100	-.0490	-.0200
.650	-.1690	-.2570	-.2690	-.2660	-.2130
.775	-.1790	-.2540	-.2910	-.2780	-.2180
.900		.0000	-.2790	-.2490	-.2170

MACH (2) = 2.000 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1060	.4600	.4620	.4110	.2790
.050	.0670	-.1480	-.1770	-.2350	-.2330
.150	.0490	-.1670	-.1780	-.1920	-.1900
.300	-.0220	-.1020	-.1600	-.1670	-.1390
.520	-.0570	-.0740	-.1170	-.1210	-.0910

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1321

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV14)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1950	-.2630	-.2790	-.2190	-.2440
.775	-.1950	-.2620	-.2950	-.2240	-.2510
.900		.0000	-.2730	-.2230	-.2420

MACH (2) = 2.000 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1350	.3660	.4280	.3710	.2140
.050	.0550	-.2010	-.2240	-.2770	-.2780
.150	-.0140	-.2250	-.2270	-.2430	-.2490
.300	-.0510	-.1360	-.2220	-.2240	-.2020
.520	-.1190	-.1370	-.1960	-.1870	-.1580
.650	-.2350	-.2860	-.3030	-.2350	-.2690
.775	-.2310	-.2980	-.3070	-.2390	-.2750
.900		.0000	-.2900	-.2370	-.2670

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV15) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2930	.2390	.1620	.2330	.2410
.050	.2180	.3360	.3660	.4170	.3960
.150	.1850	.2590	.3110	.3500	.3350
.300	.1230	.1910	.2690	.3060	.2340
.520	.1070	.1970	.2500	.3430	.1550
.650	-.2400	-.4130	-.4160	-.4270	-.2660
.775	-.1990	-.4140	-.4180	-.4360	-.2930
.900		.0000	-.4100	-.4170	-.3060

MACH (1) = 1.555 BETAT (2) = -6.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3930	.3180	.2960	.3710	.3230
.050	.2070	.2390	.2830	.3250	.3250
.150	.1740	.1930	.2500	.2880	.2730
.300	.1100	.1420	.2150	.2440	.2110
.520	.0720	.1380	.2230	.3080	.1570
.650	-.2350	-.4230	-.4230	-.4290	-.2730
.775	-.2170	-.4150	-.4370	-.4480	-.3020
.900		.0000	-.4370	-.4290	-.3220

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2540	.3820	.3330	.4220	.3450
.050	.1610	.2140	.2090	.2530	.2510
.150	.1380	.1660	.1950	.2270	.2130
.300	.0850	.1090	.1690	.1940	.1650
.520	.0390	.0860	.1900	.2630	.1440
.650	-.2150	-.4330	-.4280	-.4320	-.2830
.775	-.2320	-.4330	-.4420	-.4540	-.3060
.900		.0000	-.4440	-.4340	-.3300

MACH (1) = 1.555 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5710	.5550	.3860	.4310	.2980
.050	.0610	-.0330	-.0650	-.0770	-.0750
.150	.1290	.0890	.0970	.0960	.0970
.300	.0560	.0290	.0460	.0390	.0660
.520	-.0120	.0000	.0340	.2610	.0600
.650	-.3080	-.4510	-.4510	-.4500	-.3040
.775	-.2650	-.4730	-.4720	-.4740	-.3360
.900		.0000	-.4530	-.4600	-.3580

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV15)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2080	.4800	.4130	.4260	.2820
.050	.2300	-.1290	-.2320	-.2980	-.3010
.150	.1460	.0440	-.1320	-.2090	-.2010
.300	.0560	-.0020	-.0260	-.0690	-.0860
.520	-.0230	-.0530	.0000	.2210	.0960
.650	-.2500	-.4410	-.4570	-.4500	-.2870
.775	-.2650	-.3840	-.4790	-.4380	-.3200
.900		.0000	-.4100	-.3550	-.3390

MACH (1) = 1.555 BETAT (6) = 6.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2360	.2950	.3950	.3880	.2220
.050	.1420	-.0380	-.2760	-.3770	-.3920
.150	.1230	-.0010	-.2170	-.2980	-.3070
.300	.0630	-.0430	-.1420	-.2480	-.2170
.520	-.0200	-.0950	-.0610	.0690	.0090
.650	-.2630	-.4360	-.4680	-.4530	-.3500
.775	-.2800	-.3960	-.4960	-.4140	-.3490
.900		.0000	-.4120	-.3520	-.3580

MACH (1) = 1.555 BETAT (7) = 8.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3650	.3700	.3380	.2800	.1190
.050	.1690	-.2890	-.3320	-.4010	-.4530
.150	.0860	-.0730	-.3170	-.3860	-.4100
.300	-.0050	-.1110	-.2860	-.3100	-.3220
.520	-.0990	-.1450	-.2200	-.1750	-.1270
.650	-.3170	-.4710	-.4640	-.4220	-.4350
.775	-.3230	-.4540	-.4950	-.4020	-.4330
.900		.0000	-.4510	-.3790	-.4080

MACH (2) = 2.000 BETAT (1) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2420	.3070	.2870	.3540	.3480
.050	.3280	.3550	.3860	.4090	.4000
.150	.2430	.2570	.3170	.3500	.3500
.300	.1440	.1690	.2590	.2890	.2700
.520	.1080	.1510	.2180	.3680	.2800
.650	-.1410	-.2240	-.2170	-.2060	-.0760
.775	-.0910	-.2470	-.2410	-.2350	-.1120
.900		.0000	-.2450	-.2280	-.1290

MACH (2) = 2.000 BETAT (2) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1360	.4470	.3840	.4270	.3860
.050	.1840	.2950	.3070	.3210	.3250
.150	.1790	.2360	.2710	.2890	.2890
.300	.1330	.1600	.2140	.2410	.2260

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV15)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0840	.1250	.1860	.2780	.2040
.650	-.1270	-.2340	-.2300	-.2110	-.0870
.775	-.1150	-.2600	-.2560	-.2370	-.1290
.900		.0000	-.2580	-.2380	-.1490

MACH (2) = 2.000 BETAT (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7060	.6110	.4360	.4760	.3760
.050	.0180	.0300	.0040	-.0060	-.0050
.150	.1690	.1640	.0980	.0570	.0600
.300	.0930	.0930	.1220	.1320	.1460
.520	.0330	.0530	.0800	.2400	.1180
.650	-.1810	-.2490	-.2480	-.2340	-.1330
.775	-.1660	-.2840	-.2780	-.2700	-.1660
.900		.0000	-.2670	-.2600	-.1840

MACH (2) = 2.000 BETAT (4) = 3.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1250	.5170	.4510	.4300	.2980
.050	.1280	-.0970	-.1530	-.1860	-.1790
.150	.0940	-.0430	-.1280	-.1290	-.1240
.300	.0390	-.0040	-.0830	-.0950	-.0730
.520	-.0170	-.0340	-.0120	-.0470	-.0230
.650	-.1680	-.2520	-.2670	-.2720	-.2090
.775	-.1800	-.2530	-.2900	-.2780	-.2190
.900		.0000	-.2770	-.2450	-.2190

MACH (2) = 2.000 BETAT (5) = 6.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1680	.4000	.4190	.3810	.2360
.050	.0610	-.1720	-.1900	-.2490	-.2440
.150	.0490	-.1960	-.1890	-.2050	-.2010
.300	-.0050	-.0640	-.1700	-.1800	-.1520
.520	-.0450	-.0730	-.1230	-.1390	-.1100
.650	-.1890	-.2600	-.2820	-.2360	-.2520
.775	-.2010	-.2640	-.2990	-.2380	-.2580
.900		.0000	-.2830	-.2360	-.2510

MACH (2) = 2.000 BETAT (6) = 8.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1540	.2910	.3560	.3140	.1750
.050	.0670	-.1950	-.2240	-.2640	-.2870
.150	-.0020	-.2280	-.2300	-.2470	-.2640
.300	-.0430	-.1270	-.2270	-.2380	-.2240
.520	-.0980	-.1350	-.2080	-.1680	-.1640

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1325

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV15)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.2270	-.2800	-.3060	-.2500	-.2850
.775	-.2260	-.2930	-.3130	-.2440	-.2690
.900		.0000	-.2860	-.2390	-.2570

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV16) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4530	.2380	.1120	.1690	.1950
.050	.2090	.2800	.3370	.3820	.3640
.150	.1570	.2180	.2820	.3160	.3070
.300	.0870	.1550	.2460	.2830	.2140
.520	.0740	.1690	.2370	.3190	.1360
.650	-.2970	-.4140	-.4160	-.4290	-.2740
.775	-.1920	-.4210	-.4260	-.4370	-.2940
.900		.0000	-.4210	-.4160	-.3070

MACH (1) = 1.555 BETAT (2) = -6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3800	.2550	.2410	.3140	.2730
.050	.1640	.2430	.2630	.3000	.2970
.150	.1550	.1920	.2240	.2620	.2520
.300	.0850	.1260	.1870	.2240	.1790
.520	.0470	.1300	.1990	.2780	.1340
.650	-.3000	-.4210	-.4290	-.4340	-.2830
.775	-.2170	-.4330	-.4380	-.4520	-.3100
.900		.0000	-.4330	-.4380	-.3270

MACH (1) = 1.555 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3480	.2880	.3050	.3880	.3120
.050	.1850	.2030	.1990	.2230	.2310
.150	.1410	.1500	.1850	.1970	.1940
.300	.0720	.0890	.1460	.1720	.1470
.520	.0330	.0810	.1610	.2390	.1360
.650	-.2870	-.4290	-.4330	-.4340	-.2820
.775	-.2350	-.4290	-.4480	-.4540	-.3170
.900		.0000	-.4470	-.4350	-.3390

MACH (1) = 1.555 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4940	.5040	.3440	.3900	.2570
.050	.0810	-.0390	-.0780	-.0840	-.0760
.150	.1130	.0630	.0760	.0650	.0800
.300	.0420	.0120	.0230	.0190	.0450
.520	-.0210	-.0160	.0150	.2320	.0520
.650	-.3230	-.4510	-.4510	-.4490	-.3080
.775	-.2680	-.4650	-.4740	-.4760	-.3410
.900		.0000	-.4530	-.4590	-.3600

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV16)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 4.000

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2750	.3390	.3710	.3820	.2370
.050	.2340	-.1000	-.2330	-.2920	-.3060
.150	.1640	.0290	-.1340	-.2340	-.2170
.300	.0740	-.0220	-.0410	-.0740	-.1010
.520	-.0130	-.0560	-.0190	.1860	.0680
.650	-.2860	-.4320	-.4590	-.4540	-.2980
.775	-.2720	-.4050	-.4820	-.4440	-.3280
.900		.0000	-.4160	-.3640	-.3440

MACH (1) = 1.555 BETAT (6) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4250	.2630	.3400	.3380	.1830
.050	.2220	-.1550	-.2620	-.3620	-.4000
.150	.1570	.0150	-.2310	-.3100	-.3190
.300	.0610	-.0490	-.1580	-.2160	-.2280
.520	-.0370	-.0960	-.0790	.0130	-.0150
.650	-.2870	-.4510	-.4680	-.4580	-.3380
.775	-.2930	-.4340	-.4960	-.4260	-.3680
.900		.0000	-.4280	-.3630	-.3740

MACH (1) = 1.555 BETAT (7) = 8.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3730	.3380	.2870	.2360	.0810
.050	.1660	-.2590	-.3500	-.3970	-.4520
.150	.0870	-.0770	-.3390	-.4040	-.4220
.300	-.0130	-.1300	-.3050	-.3150	-.3370
.520	-.1080	-.1630	-.2250	-.2160	-.1730
.650	-.3410	-.4790	-.4680	-.4670	-.4400
.775	-.3240	-.4790	-.5020	-.4320	-.4430
.900		.0000	-.4350	-.3920	-.4140

MACH (2) = 2.000 BETAT (1) = -8.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2100	.0690	.1210	.1990	.2400
.050	.1850	.3560	.3870	.4220	.4100
.150	.1680	.2730	.3230	.3530	.3590
.300	.0830	.1860	.2630	.2960	.2840
.520	.0680	.1630	.2240	.4230	.2760
.650	-.1650	-.2250	-.2200	-.2110	-.0850
.775	-.1120	-.2510	-.2360	-.2340	-.1120
.900		.0000	-.2330	-.2260	-.1250

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3080	.2550	.2420	.3040	.3070
.050	.1530	.2870	.3440	.3730	.3620
.150	.1430	.2150	.2820	.3070	.3120
.300	.0830	.1460	.2240	.2530	.2420

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV16)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0600	.1250	.1930	.3350	.2520
.650	-.1690	-.2280	-.2230	-.2110	-.0890
.775	-.1210	-.2500	-.2510	-.2390	-.1200
.900		.0000	-.2530	-.2320	-.1360

MACH (2) = 2.000 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0670	.3820	.3400	.3810	.3440
.050	.1450	.2590	.2660	.2820	.2870
.150	.1370	.1970	.2350	.2540	.2570
.300	.0870	.1290	.1840	.2090	.1980
.520	.0500	.0990	.1650	.2500	.1810
.650	-.1620	-.2350	-.2310	-.2170	-.0980
.775	-.1310	-.2630	-.2570	-.2460	-.1380
.900		.0000	-.2600	-.2470	-.1570

MACH (2) = 2.000 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7140	.5710	.4010	.4310	.3310
.050	-.0330	-.0200	-.0350	-.0410	-.0310
.150	.1370	.0810	.0370	.0280	.0290
.300	.0610	.0680	.1010	.1050	.1090
.520	.0150	.0320	.0600	.2120	.1010
.650	-.1890	-.2520	-.2510	-.2380	-.1410
.775	-.1730	-.2850	-.2820	-.2700	-.1720
.900		.0000	-.2680	-.2580	-.1900

MACH (2) = 2.000 BETAT (5) = 3.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1070	.4260	.4010	.3800	.2560
.050	.1250	-.0960	-.1540	-.2030	-.2000
.150	.0900	-.0480	-.1490	-.1510	-.1460
.300	.0350	-.0270	-.0900	-.1190	-.0960
.520	-.0200	-.0490	-.0410	-.0690	-.0520
.650	-.1780	-.2540	-.2680	-.2680	-.2210
.775	-.1900	-.2610	-.2940	-.2760	-.2290
.900		.0000	-.2800	-.2450	-.2290

MACH (2) = 2.000 BETAT (6) = 6.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2700	.3200	.3740	.3250	.1920
.050	.1100	-.1780	-.1990	-.2540	-.2570
.150	.0580	-.0740	-.2010	-.2130	-.2210
.300	-.0020	-.0820	-.1850	-.1980	-.1700
.520	-.0400	-.0910	-.1390	-.1220	-.1290

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1329

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV16)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1870	-.2640	-.2790	-.2630	-.2600
.775	-.2030	-.2730	-.3010	-.2540	-.2680
.900		.0000	-.2900	-.2340	-.2580

MACH (2) = 2.000 BETAT (7) = 8.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1780	.1850	.2670	.2510	.1190
.050	.0660	-.2140	-.2300	-.2560	-.2630
.150	-.0020	-.1940	-.2400	-.2480	-.2640
.300	-.0490	-.1290	-.2340	-.2430	-.2380
.520	-.0890	-.1400	-.2250	-.2000	-.1500
.650	-.2050	-.2850	-.3040	-.2550	-.2820
.775	-.2200	-.2930	-.3110	-.2550	-.2830
.900		.0000	-.3040	-.2450	-.2520

AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL

(RBOV17) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUGFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.410

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5650	.5010	.4620	.5700	.5430
.050	.6680	.6350	.6790	.7060	.6670
.150	.5360	.5450	.6020	.6020	.5670
.300	.4540	.4850	.5200	.5320	.4250
.520	.3910	.4230	.4340	.5060	.2760
.650	-.0570	-.3140	-.3130	-.3500	-.1900
.775	-.0790	-.2800	-.3220	-.3400	-.2120
.900		.0000	-.3050	-.3070	-.2330

MACH (1) = 1.555 BETAT (2) = -6.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6470	.6210	.5550	.6950	.6040
.050	.6040	.5720	.5810	.6130	.5840
.150	.4810	.4850	.5320	.5410	.5060
.300	.4020	.4160	.4620	.4730	.3970
.520	.3340	.3850	.4010	.4710	.2620
.650	-.0900	-.3260	-.3220	-.3560	-.2010
.775	-.1070	-.3070	-.3370	-.3530	-.2280
.900		.0000	-.3220	-.3260	-.2520

MACH (1) = 1.555 BETAT (3) = -4.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6890	.7190	.6010	.7250	.6180
.050	.5610	.4800	.4580	.4960	.4910
.150	.4530	.4220	.4330	.4510	.4270
.300	.3600	.3480	.3820	.3910	.3540
.520	.2690	.3090	.3430	.4280	.2540
.650	-.1210	-.3450	-.3350	-.3620	-.2080
.775	-.1470	-.3390	-.3530	-.3630	-.2380
.900		.0000	-.3440	-.3390	-.2630

MACH (1) = 1.555 BETAT (4) = -.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9280	.8210	.6880	.7630	.5980
.050	.2590	.1460	.0670	.0750	.0800
.150	.3620	.2910	.2760	.2920	.2890
.300	.2620	.2230	.2280	.2250	.2480
.520	.1640	.1750	.1830	.4000	.2030
.650	-.1830	-.3750	-.3670	-.3730	-.2200
.775	-.1950	-.3770	-.3860	-.3900	-.2520
.900		.0000	-.3850	-.3720	-.2590

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1331

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV17)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6680	.8140	.7080	.7110	.5140
.050	.1750	-.1330	-.2690	-.2730	-.2770
.150	.2510	.0470	-.1670	-.1620	-.1590
.300	.1530	.1040	.0400	-.1060	-.0600
.520	.0630	.0590	.0950	.0210	.0190
.650	-.1990	-.4070	-.4010	-.4050	-.3210
.775	-.2210	-.4220	-.4260	-.4010	-.3180
.900		.0000	-.4270	-.3950	-.2550

MACH (1) = 1.555 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4940	.7610	.7140	.6980	.4880
.050	.0860	-.1150	-.2600	-.3170	-.3260
.150	.2370	-.0740	-.2170	-.2100	-.2110
.300	.1500	.0560	-.0040	-.1490	-.1030
.520	.0390	.0560	.0650	-.0380	-.0130
.650	-.1410	-.4120	-.4090	-.4260	-.3320
.775	-.2190	-.4110	-.4380	-.4150	-.3520
.900		.0000	-.4060	-.4070	-.3080

MACH (1) = 1.555 BETAT (7) = 8.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4150	.7050	.6760	.6110	.3960
.050	-.0260	-.1760	-.3100	-.3990	-.4070
.150	.1400	-.1730	-.2560	-.3070	-.3190
.300	.0780	-.1260	-.1230	-.2520	-.2040
.520	-.0090	-.0710	-.0840	-.1740	-.1100
.650	-.2110	-.4250	-.4470	-.4300	-.3740
.775	-.2380	-.4230	-.4630	-.3430	-.4040
.900		.0000	-.3490	-.3240	-.3660

MACH (2) = 2.000 BETAT (1) = -8.380

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5040	.5730	.5640	.7030	.6710
.050	.6950	.6680	.6960	.7390	.7210
.150	.5180	.5410	.6160	.6490	.6350
.300	.4020	.4490	.5470	.5770	.5410
.520	.3580	.4290	.4780	.6300	.4660
.650	.0070	-.1250	-.1050	-.1220	.0140
.775	.0470	-.1350	-.1320	-.1300	-.0220
.900		.0000	-.1230	-.1140	-.0470

MACH (2) = 2.000 BETAT (2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6070	.7210	.6190	.7740	.7190
.050	.6210	.6290	.6310	.6420	.6380
.150	.4890	.5180	.5670	.5810	.5680
.300	.4050	.4240	.4900	.5070	.4810

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV17)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.3500	.3990	.4210	.5450	.4310
.650	-.0110	-.1390	-.1230	-.1320	.0090
.775	.0170	-.1600	-.1480	-.1460	-.0340
.900		.0000	-.1430	-.1350	-.0630

MACH (2) = 2.000 BETAT (3) = -4.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7660	.8620	.7200	.8260	.7260
.050	.5730	.5450	.4930	.5210	.5270
.150	.4740	.4700	.4870	.5070	.4970
.300	.3780	.3850	.4270	.4420	.4250
.520	.3070	.3380	.3660	.4610	.3780
.650	-.0330	-.1580	-.1460	-.1440	-.0050
.775	-.0160	-.1860	-.1690	-.1630	-.0490
.900		.0000	-.1650	-.1560	-.0810

MACH (2) = 2.000 BETAT (4) = -1.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9990	.9590	.7700	.8600	.6980
.050	.2880	.2290	.1610	.1390	.1280
.150	.4220	.3710	.3680	.2530	.2350
.300	.3230	.2960	.3060	.3260	.3490
.520	.2330	.2420	.2490	.4000	.2870
.650	-.0560	-.1830	-.1760	-.1710	-.0530
.775	-.0570	-.2130	-.2060	-.1960	-.0820
.900		.0000	-.2080	-.1870	-.1030

MACH (2) = 2.000 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7110	.9250	.7650	.8110	.6400
.050	.1500	.0130	-.0930	-.0640	-.0510
.150	.2900	.1160	.0070	.0210	.0270
.300	.2210	.1900	.0560	.0520	.0820
.520	.1440	.1530	.1580	.1060	.1310
.650	-.0650	-.2090	-.1980	-.2260	-.1430
.775	-.1010	-.2420	-.2320	-.2440	-.1580
.900		.0000	-.2390	-.2300	-.1460

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4850	.8190	.7510	.7670	.6000
.050	.0160	-.0670	-.1130	-.1350	-.1300
.150	.2160	-.0650	-.0870	-.0680	-.0540
.300	.1380	-.0010	-.0160	-.0330	.0090
.520	.0800	.0730	.0720	.0230	.0730

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1333

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV17)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.0590	-.2250	-.2280	-.2470	-.1800
.775	-.1380	-.2470	-.2630	-.2560	-.1980
.900		.0000	-.2470	-.2460	-.1870

MACH (2) = 2.000 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3510	.7170	.7220	.6870	.5270
.050	.0330	-.0790	-.1400	-.2000	-.1970
.150	.0170	-.0900	-.1490	-.1420	-.1360
.300	.0130	-.0950	-.0820	-.1130	-.0710
.520	-.0270	-.0860	-.0510	-.0610	.0000
.650	-.1260	-.2350	-.2610	-.1290	-.2060
.775	-.1770	-.2420	-.2570	-.1290	-.2090
.900		.0000	-.2170	-.1410	-.1920

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV18) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4350	.4110	.3850	.4670	.4480
.050	.5410	.5270	.5720	.6210	.5780
.150	.4140	.4390	.5060	.5240	.4930
.300	.3350	.3780	.4450	.4620	.3670
.520	.2850	.3410	.3560	.4450	.2300
.650	-.1120	-.3360	-.3270	-.3620	-.2160
.775	-.1260	-.3140	-.3420	-.3570	-.2350
.900		.0000	-.3270	-.3280	-.2570

MACH (1) = 1.555 BETAT (2) = -6.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5630	.5400	.4830	.5980	.5080
.050	.5180	.4780	.4880	.5200	.5010
.150	.3880	.3950	.4400	.4620	.4320
.300	.3020	.3230	.3840	.4020	.3370
.520	.2540	.3110	.3360	.4170	.2220
.650	-.1480	-.3430	-.3340	-.3660	-.2220
.775	-.1440	-.3340	-.3540	-.3650	-.2480
.900		.0000	-.3420	-.3410	-.2730

MACH (1) = 1.555 BETAT (3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4530	.6450	.5150	.6360	.5170
.050	.4600	.3990	.3730	.4120	.4070
.150	.3600	.3390	.3530	.3730	.3520
.300	.2740	.2650	.3020	.3150	.2830
.520	.1950	.2390	.2670	.3580	.2080
.650	-.1580	-.3600	-.3490	-.3730	-.2290
.775	-.1770	-.3610	-.3710	-.3780	-.2560
.900		.0000	-.3640	-.3560	-.2820

MACH (1) = 1.555 BETAT (4) = -1.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8580	.7450	.5850	.6580	.4970
.050	.2060	.0740	.0080	.0130	.0170
.150	.2910	.2240	.2070	.2280	.2240
.300	.1920	.1550	.1620	.1710	.1900
.520	.1010	.1120	.1220	.3280	.1420
.650	-.2320	-.3900	-.3830	-.3870	-.2490
.775	-.2310	-.4030	-.4050	-.4040	-.2770
.900		.0000	-.4030	-.3880	-.2940

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV18)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4460	.7280	.5930	.6010	.4100
.050	.2350	-.1530	-.2900	-.2980	-.2960
.150	.2000	-.0010	-.2020	-.1960	-.1980
.300	.0970	.0520	-.0150	-.1460	-.1090
.520	-.0050	.0070	.0220	-.0460	-.0200
.650	-.2050	-.4320	-.4090	-.4220	-.3470
.775	-.2450	-.4280	-.4410	-.4160	-.3330
.900		.0000	-.4340	-.4100	-.2910

MACH (1) = 1.555 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3730	.6580	.6150	.5890	.3850
.050	.1470	-.1490	-.2700	-.3420	-.3540
.150	.1790	-.1250	-.2090	-.2390	-.2460
.300	.0740	.0390	-.0560	-.1850	-.1380
.520	-.0130	.0290	-.0150	-.0740	-.0430
.650	-.1820	-.4370	-.4260	-.4370	-.3580
.775	-.2420	-.4100	-.4480	-.4260	-.3690
.900		.0000	-.4210	-.4220	-.3340

MACH (1) = 1.555 BETAT (7) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2450	.5930	.5690	.5000	.3010
.050	.0810	-.2060	-.3000	-.4180	-.4280
.150	.1020	-.2210	-.2490	-.3380	-.3510
.300	.0170	-.1550	-.1820	-.2860	-.2450
.520	-.0700	-.0610	-.1590	-.2070	-.1530
.650	-.2440	-.4490	-.4450	-.4210	-.3990
.775	-.2620	-.4180	-.4610	-.3360	-.4130
.900		.0000	-.3660	-.3140	-.3750

MACH (2) = 2.000 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3750	.4720	.4650	.5500	.5700
.050	.5780	.5880	.6350	.6520	.6340
.150	.4270	.4640	.5450	.5730	.5570
.300	.3170	.3720	.4670	.5030	.4630
.520	.2810	.3560	.4040	.5580	.4090
.650	-.0390	-.1430	-.1260	-.1290	-.0110
.775	.0080	-.1570	-.1510	-.1440	-.0410
.900		.0000	-.1460	-.1310	-.0610

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4390	.6030	.5230	.6380	.6030
.050	.5360	.5610	.5580	.5650	.5550
.150	.4210	.4520	.4880	.5090	.4920
.300	.3250	.3500	.4150	.4340	.4090

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV18)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.2730	.3220	.3510	.4630	.3680
.650	-.0500	-.1590	-.1440	-.1460	-.0200
.775	-.0190	-.1800	-.1700	-.1620	-.0600
.900		.0000	-.1700	-.1500	-.0850

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5210	.7210	.6190	.6980	.6210
.050	.4520	.4720	.4440	.4530	.4620
.150	.3770	.3950	.4230	.4330	.4220
.300	.2930	.3090	.3630	.3710	.3540
.520	.2290	.2700	.2970	.3890	.3100
.650	-.0660	-.1740	-.1610	-.1570	-.0310
.775	-.0500	-.2000	-.1870	-.1770	-.0730
.900		.0000	-.1880	-.1700	-.1010

MACH (2) = 2.000 BETAT (4) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8750	.8470	.6610	.7240	.5900
.050	.2180	.1870	.1180	.1000	.0890
.150	.3340	.2960	.2980	.1880	.1880
.300	.2470	.2230	.2400	.2610	.2810
.520	.1670	.1740	.1830	.3120	.2230
.650	-.0970	-.2010	-.1920	-.1880	-.0820
.775	-.0980	-.2340	-.2230	-.2130	-.1110
.900		.0000	-.2250	-.2050	-.1330

MACH (2) = 2.000 BETAT (5) = 3.920

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5090	.7970	.6740	.6870	.5390
.050	.1640	-.0190	-.1210	-.1020	-.0930
.150	.2110	.0320	-.0390	-.0340	-.0260
.300	.1490	.1300	.0110	-.0040	.0250
.520	.0710	.0940	.0860	.0480	.0680
.650	-.0920	-.2260	-.2190	-.2380	-.1690
.775	-.1270	-.2510	-.2500	-.2530	-.1790
.900		.0000	-.2550	-.2410	-.1720

MACH (2) = 2.000 BETAT (6) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3830	.6960	.6470	.6410	.4930
.050	-.0010	-.1040	-.1640	-.1720	-.1680
.150	.1220	-.1050	-.1260	-.1160	-.1040
.300	.0730	-.0740	-.0850	-.0880	-.0480
.520	.0110	-.0070	.0030	-.0390	.0030

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1337

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV18)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1150	-.2380	-.2430	-.2380	-.2010
.775	-.1640	-.2550	-.2720	-.2540	-.2220
.900		.0000	-.2560	-.2200	-.2150

MACH (2) = 2.000 BETAT (7) = 8.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2050	.6110	.6430	.5930	.4260
.050	-.0120	-.1160	-.1670	-.2210	-.2170
.150	-.0270	-.1280	-.1770	-.1720	-.1680
.300	-.0370	-.1350	-.1260	-.1490	-.1120
.520	-.0650	-.1300	-.1020	-.1070	-.0590
.650	-.1680	-.2530	-.2730	-.1520	-.2260
.775	-.1940	-.2570	-.2680	-.1520	-.2200
.900		.0000	-.2380	-.1660	-.2100

AMES 97-707 1A9-02A + S3 + T9 LEFT VERTICAL

(RBOV19) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2100	.3390	.3060	.3860	.3750
.050	.3880	.4280	.4800	.5390	.5080
.150	.3040	.3430	.4200	.4540	.4280
.300	.2380	.2880	.3730	.3910	.3150
.520	.1970	.2700	.3020	.3970	.1910
.650	-.1340	-.3480	-.3400	-.3700	-.2340
.775	-.1580	-.3270	-.3520	-.3660	-.2540
.900		.0000	-.3400	-.3380	-.2720

MACH (1) = 1.555 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4200	.4650	.4170	.5090	.4310
.050	.3250	.3810	.3990	.4360	.4200
.150	.2580	.3130	.3570	.3840	.3610
.300	.1980	.2480	.3070	.3310	.2780
.520	.1540	.2310	.2750	.3580	.1810
.650	-.1630	-.3580	-.3450	-.3730	-.2410
.775	-.1770	-.3510	-.3640	-.3750	-.2660
.900		.0000	-.3570	-.3510	-.2880

MACH (1) = 1.555 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3090	.5560	.4380	.5260	.4400
.050	.3540	.3410	.3070	.3420	.3440
.150	.2810	.2750	.2860	.3100	.3000
.300	.1950	.2010	.2400	.2640	.2360
.520	.1310	.1790	.2110	.3090	.1790
.650	-.2090	-.3750	-.3600	-.3770	-.2430
.775	-.2040	-.3810	-.3800	-.3820	-.2720
.900		.0000	-.3750	-.3590	-.2990

MACH (1) = 1.555 BETAT (4) = -.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7150	.6660	.5020	.5660	.4150
.050	.1800	.0360	-.0320	-.0270	-.0170
.150	.2210	.1700	.1590	.1800	.1810
.300	.1380	.1030	.1130	.1150	.1490
.520	.0520	.0610	.0690	.2630	.0950
.650	-.2660	-.4020	-.3950	-.3990	-.2670
.775	-.2520	-.4200	-.4160	-.4160	-.3000
.900		.0000	-.4150	-.4020	-.3200

AMES 97-707 IA9 C2A + S3 + T9 LEFT VERTICAL

(RBOV19)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3140	.6380	.5060	.5150	.3420
.050	.1960	-.1650	-.3010	-.3230	-.3020
.150	.1330	-.0460	-.2410	-.2280	-.2060
.300	.0470	.0090	-.0550	-.1460	-.0990
.520	-.0430	-.0370	-.0230	.1310	.0300
.650	-.2510	-.4500	-.4120	-.4030	-.2960
.775	-.2710	-.4310	-.4300	-.4120	-.2850
.900		.0000	-.4300	-.3960	-.2830

MACH (1) = 1.555 BETAT (6) = 5.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3400	.5760	.5230	.5020	.3220
.050	.2340	-.1650	-.2690	-.3520	-.3620
.150	.1570	-.0280	-.2010	-.2570	-.2630
.300	.0440	.0360	-.0920	-.1990	-.1630
.520	-.0410	-.0250	-.0290	.0030	-.0390
.650	-.2220	-.4240	-.4220	-.4270	-.3680
.775	-.2640	-.3520	-.4400	-.4330	-.3400
.900		.0000	-.4340	-.4270	-.3150

MACH (1) = 1.555 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1690	.4790	.4640	.4020	.2280
.050	.0850	-.2600	-.3150	-.4350	-.4440
.150	.0860	-.2820	-.3040	-.3580	-.3730
.300	-.0030	-.0310	-.2320	-.3110	-.2780
.520	-.0940	-.0640	-.1920	-.2180	-.1870
.650	-.2910	-.4630	-.4510	-.4420	-.4230
.775	-.3010	-.4030	-.4580	-.3680	-.4390
.900		.0000	-.4240	-.3190	-.4070

MACH (2) = 2.000 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1120	.3390	.3410	.4160	.4470
.050	.4350	.5200	.5560	.5590	.5420
.150	.3220	.3970	.4680	.4890	.4740
.300	.2290	.2890	.3890	.4260	.3820
.520	.2120	.2720	.3260	.4820	.3390
.650	-.0720	-.1640	-.1450	-.1480	-.0270
.775	-.0360	-.1810	-.1670	-.1640	-.0630
.900		.0000	-.1650	-.1520	-.0840

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2760	.4960	.4180	.5080	.4900
.050	.3970	.4780	.4880	.4850	.4770
.150	.3110	.3730	.4160	.4260	.4190
.300	.2340	.2750	.3440	.3620	.3370

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV19)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1910	.2440	.2770	.3870	.2990
.650	-.0840	-.1810	-.1640	-.1610	-.0470
.775	-.0600	-.2060	-.1880	-.1780	-.0870
.900		.0000	-.1870	-.1700	-.1090

MACH (2) = 2.000 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3060	.5990	.5070	.5740	.5210
.050	.3250	.3910	.3850	.3870	.3860
.150	.2770	.3210	.3510	.3600	.3510
.300	.2070	.2390	.2910	.3050	.2840
.520	.1500	.1970	.2320	.3190	.2460
.650	-.1050	-.1970	-.1820	-.1750	-.0630
.775	-.0910	-.2260	-.2080	-.1960	-.1000
.900		.0000	-.2100	-.1890	-.1260

MACH (2) = 2.000 BETAT (4) = -.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7330	.7420	.5580	.6090	.4950
.050	.1500	.1240	.0580	.0370	.0340
.150	.2520	.2330	.1960	.1110	.1130
.300	.1730	.1570	.1750	.1970	.2100
.520	.1020	.1100	.1240	.2420	.1670
.650	-.1330	-.2190	-.2100	-.2020	-.1080
.775	-.1310	-.2520	-.2400	-.2280	-.1420
.900		.0000	-.2410	-.2240	-.1630

MACH (2) = 2.000 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2590	.6680	.5710	.5810	.4390
.050	.1530	-.0820	-.1540	-.1420	-.1350
.150	.1220	-.0570	-.0820	-.0860	-.0780
.300	.0700	.0600	-.0550	-.0600	-.0290
.520	.0050	.0330	.0240	-.0100	.0200
.650	-.1390	-.2480	-.2390	-.2510	-.1940
.775	-.1610	-.2600	-.2700	-.2630	-.2010
.900		.0000	-.2620	-.2550	-.1970

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1910	.5900	.5600	.5350	.3800
.050	.0140	-.1290	-.1790	-.2070	-.2030
.150	.0730	-.1390	-.1640	-.1580	-.1510
.300	.0110	-.1320	-.1340	-.1380	-.1000
.520	-.0520	-.0670	-.0670	-.0930	-.0510

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1341

AMES 97-707 IA9 ORA + S3 + T9 LEFT VERTICAL

(RBOV19)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1730	-.2570	-.2590	-.2340	-.2280
.775	-.1810	-.2620	-.2830	-.2370	-.2430
.900		.0000	-.2650	-.2180	-.2370

MACH (2) = 2.000 BETAT (7) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0450	.4850	.5250	.4640	.3100
.050	-.0290	-.1450	-.1900	-.2500	-.2480
.150	-.0150	-.1610	-.1930	-.2090	-.2110
.300	-.0580	-.1730	-.1680	-.1850	-.1600
.520	-.1170	-.1620	-.1550	-.1460	-.1140
.650	-.2140	-.2720	-.2830	-.1880	-.2400
.775	-.2140	-.2700	-.2870	-.1730	-.2210
.900		.0000	-.2400	-.1800	-.2100

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV20) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2240	.2530	.2180	.2740	.2900
.050	.2210	.3380	.3920	.4550	.4300
.150	.1960	.2620	.3420	.3800	.3600
.300	.1480	.2090	.2970	.3260	.2570
.520	.1220	.2020	.2500	.3360	.1460
.650	-.1430	-.3650	-.3590	-.3810	-.2550
.775	-.1840	-.3280	-.3700	-.3780	-.2750
.900		.0000	-.3580	-.3530	-.2900

MACH (1) = 1.555 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2970	.3490	.3440	.4190	.3660
.050	.2490	.2730	.3210	.3540	.3470
.150	.1960	.2270	.2870	.3090	.2950
.300	.1360	.1730	.2410	.2670	.2210
.520	.0950	.1580	.2120	.2970	.1430
.650	-.2050	-.3730	-.3630	-.3840	-.2590
.775	-.2090	-.3630	-.3820	-.3860	-.2840
.900		.0000	-.3760	-.3630	-.3030

MACH (1) = 1.555 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2460	.4660	.3670	.4700	.3890
.050	.1680	.2540	.2470	.2810	.2830
.150	.1530	.2070	.2300	.2520	.2430
.300	.1000	.1370	.1820	.2100	.1880
.520	.0440	.1110	.1650	.2540	.1410
.650	-.2250	-.3920	-.3700	-.3870	-.2650
.775	-.2250	-.3950	-.3890	-.3940	-.2900
.900		.0000	-.3860	-.3730	-.3150

MACH (1) = 1.555 BETAT (4) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6000	.5880	.4210	.4710	.3360
.050	.1270	.0010	-.0500	-.0590	-.0380
.150	.1620	.1220	.1140	.1300	.1360
.300	.0870	.0560	.0660	.0690	.0870
.520	.0080	.0180	.0330	.1980	.0470
.650	-.2870	-.4140	-.4040	-.4120	-.2880
.775	-.2500	-.4320	-.4280	-.4270	-.3200
.900		.0000	-.4260	-.4120	-.3420

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1343

AMES 97-707 1A9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV20)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2450	.5460	.4330	.4650	.3040
.050	.1870	-.1680	-.2620	-.3110	-.3070
.150	.1200	.0070	-.2070	-.2040	-.2030
.300	.0290	-.0090	-.0050	-.1290	-.1100
.520	-.0320	-.0350	.0100	.1430	.0810
.650	-.2440	-.4390	-.4240	-.4180	-.2720
.775	-.2660	-.3530	-.4460	-.4330	-.3010
.900		.0000	-.4470	-.4190	-.3190

MACH (1) = 1.555 BETAT (6) = 6.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1290	.3790	.4370	.4340	.2650
.050	.1570	-.0470	-.2680	-.3650	-.3720
.150	.1250	.0150	-.2040	-.2730	-.2810
.300	.0540	-.0260	-.1100	-.2220	-.1940
.520	-.0260	-.0730	-.0460	.0470	-.0100
.650	-.2430	-.4110	-.4230	-.4320	-.3470
.775	-.2710	-.3540	-.4520	-.4510	-.3300
.900		.0000	-.4360	-.4340	-.3390

MACH (1) = 1.555 BETAT (7) = 8.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2900	.3880	.3850	.3290	.1590
.050	.1850	-.2710	-.3260	-.4230	-.4570
.150	.0920	-.0640	-.3050	-.3820	-.3920
.300	-.0010	-.0930	-.2680	-.3240	-.3070
.520	-.0990	-.1220	-.2070	-.1510	-.1870
.650	-.3140	-.4510	-.4390	-.4590	-.4320
.775	-.3140	-.4040	-.4600	-.4230	-.4380
.900		.0000	-.4580	-.3430	-.4120

MACH (2) = 2.000 BETAT (1) = -8.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1750	.2450	.2430	.3240	.3480
.050	.2970	.3930	.4630	.4980	.4820
.150	.2210	.2880	.3850	.4220	.4220
.300	.1330	.2040	.3200	.3620	.3320
.520	.1360	.2020	.2670	.4270	.3030
.650	-.1140	-.1840	-.1620	-.1620	-.0530
.775	-.0680	-.1980	-.1840	-.1770	-.0850
.900		.0000	-.1810	-.1670	-.1020

MACH (2) = 2.000 BETAT (2) = -6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1340	.3760	.3290	.3910	.3910
.050	.3520	.4020	.4200	.4210	.4160
.150	.2720	.2980	.3500	.3620	.3600
.300	.1770	.2030	.2790	.3040	.2800

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV20)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.240	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.1300	.1720	.2130	.3380	.2440
	.650	-.1170	-.1940	-.1780	-.1700	-.0610
	.775	-.0820	-.2120	-.2010	-.1900	-.0970
	.900		.0000	-.1990	-.1850	-.1170
MACH (2) = 2.000 BETAT (3) = -4.200	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1940	.5050	.4200	.4640	.4230
	.050	.1930	.3150	.3240	.3270	.3360
	.150	.1820	.2520	.2930	.3010	.3030
	.300	.1400	.1780	.2380	.2540	.2360
MACH (2) = 2.000 BETAT (4) = -.130	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7140	.6450	.4810	.5200	.4160
	.050	.0420	.0550	.0170	-.0010	.0040
	.150	.1860	.1850	.1140	.0680	.0710
	.300	.1200	.1180	.1340	.1520	.1660
MACH (2) = 2.000 BETAT (5) = 3.950	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1660	.5590	.4800	.4630	.3330
	.050	.1230	-.1020	-.1560	-.1800	-.1740
	.150	.0760	-.0800	-.1220	-.1260	-.1210
	.300	.0300	.0080	-.0840	-.0960	-.0720
MACH (2) = 2.000 BETAT (6) = 5.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.0840	.4580	.4560	.4100	.2720
	.050	.0480	-.1550	-.1810	-.2380	-.2330
	.150	.0400	-.1750	-.1820	-.1930	-.1930
	.300	-.0230	-.1070	-.1620	-.1710	-.1430

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1345

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV20)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1890	-.2560	-.2690	-.2480	-.2460
.775	-.1960	-.2470	-.2840	-.2450	-.2610
.900		.0000	-.2760	-.2160	-.2510

MACH (2) = 2.000 BETAT (7) = 6.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1260	.3670	.4220	.3700	.2160
.050	.0510	-.2050	-.2210	-.2740	-.2760
.150	-.0160	-.2270	-.2270	-.2420	-.2480
.300	-.0520	-.1350	-.2210	-.2230	-.2100
.520	-.1170	-.1360	-.1920	-.1880	-.1630
.650	-.2250	-.2760	-.2910	-.2460	-.2710
.775	-.2300	-.2820	-.3080	-.2340	-.2650
.900		.0000	-.2800	-.2280	-.2600

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV21) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3050	.2280	.1610	.2210	.2370
		.050	.2200	.3380	.3660	.4190	.3970
		.150	.1850	.2600	.3090	.3490	.3320
		.300	.1250	.1900	.2710	.3010	.2250
		.520	.1090	.1940	.2170	.3030	.1230
		.650	-.2300	-.3650	-.3660	-.3830	-.2630
		.775	-.1960	-.3660	-.3610	-.3820	-.2840
		.900		.0000	-.3510	-.3580	-.2970
MACH (1) = 1.555	BETAT (2) = -6.290	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3710	.3170	.2940	.3690	.3210
		.050	.1900	.2400	.2910	.3290	.3270
		.150	.1700	.1950	.2540	.2840	.2750
		.300	.1060	.1450	.2150	.2470	.2010
		.520	.0690	.1350	.1860	.2760	.1280
		.650	-.2280	-.3780	-.3710	-.3870	-.2680
		.775	-.2160	-.3660	-.3870	-.3900	-.2950
		.900		.0000	-.3820	-.3710	-.3150
MACH (1) = 1.555	BETAT (3) = -4.230	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2700	.3640	.3440	.4320	.3550
		.050	.1650	.2180	.2190	.2530	.2540
		.150	.1390	.1680	.2050	.2300	.2240
		.300	.0840	.1090	.1690	.1900	.1630
		.520	.0390	.0850	.1550	.2370	.1250
		.650	-.2130	-.3970	-.3750	-.3910	-.2720
		.775	-.2320	-.3840	-.3940	-.3970	-.2990
		.900		.0000	-.3910	-.3800	-.3220
MACH (1) = 1.555	BETAT (4) = -.120	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.5500	.5480	.3860	.4300	.2930
		.050	.0670	-.0310	-.0710	-.0750	-.0700
		.150	.1260	.0860	.0900	.0900	.1070
		.300	.0550	.0250	.0430	.0370	.0610
		.520	-.0130	-.0040	.0100	.1700	.0260
		.650	-.3030	-.4200	-.4090	-.4160	-.2960
		.775	-.2570	-.4370	-.4320	-.4300	-.3300
		.900		.0000	-.4310	-.4160	-.3520

AMES 97-707 1A9 OCA + S3 + T9 LEFT VERTICAL

(RBOV21)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2090	.4760	.4060	.4300	.2770
.050	.2190	-.1350	-.2390	-.3040	-.3070
.150	.1360	.0400	-.1290	-.2090	-.2060
.300	.0530	-.0030	-.0230	-.0690	-.1030
.520	-.0270	-.0530	-.0130	.1310	.0600
.650	-.2330	-.4220	-.4230	-.4210	-.2840
.775	-.2620	-.3520	-.4480	-.4400	-.3140
.900		.0000	-.4440	-.4230	-.3330

MACH (1) = 1.555 BETAT (6) = 6.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2820	.3130	.3900	.3930	.2280
.050	.1550	-.0530	-.2720	-.3750	-.3880
.150	.1270	.0000	-.2210	-.2940	-.3020
.300	.0630	-.0420	-.1330	-.2400	-.2140
.520	-.0160	-.0840	-.0680	.0190	-.0090
.650	-.2450	-.4200	-.4310	-.4420	-.3410
.775	-.2780	-.3640	-.4620	-.4600	-.3420
.900		.0000	-.4360	-.4320	-.3530

MACH (1) = 1.555 BETAT (7) = 8.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3750	.3710	.3330	.2770	.1170
.050	.1600	-.2890	-.3340	-.3990	-.4520
.150	.0770	-.0780	-.3220	-.3900	-.4150
.300	-.0070	-.1170	-.2910	-.3100	-.3250
.520	-.1010	-.1400	-.2230	-.2020	-.1360
.650	-.3050	-.4560	-.4360	-.4760	-.4350
.775	-.3180	-.4130	-.4650	-.4300	-.4410
.900		.0000	-.4680	-.3600	-.4190

MACH (2) = 2.000 BETAT (1) = -8.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1730	.1540	.1800	.2610	.2960
.050	.1810	.3440	.4240	.4570	.4470
.150	.1550	.2600	.3490	.3850	.3880
.300	.0920	.1840	.2840	.3230	.3040
.520	.0990	.1750	.2310	.3930	.2770
.650	-.1350	-.1890	-.1730	-.1690	-.0670
.775	-.0800	-.1950	-.1960	-.1850	-.0960
.900		.0000	-.1960	-.1780	-.1110

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2310	.3080	.2840	.3520	.3450
.050	.2960	.3360	.3760	.3940	.3890
.150	.2210	.2440	.3090	.3400	.3410
.300	.1300	.1620	.2490	.2840	.2620

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV21)

SECTION (1)LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0990	.1400	.1920	.3100	.2270
.650	-.1340	-.2040	-.1850	-.1790	-.0740
.775	-.0980	-.2190	-.2100	-.1970	-.1100
.900		.0000	-.2070	-.1920	-.1280

MACH (2) = 2.000 BETAT (3) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1150	.4670	.3900	.4230	.3800
.050	.1620	.2710	.2920	.3010	.3070
.150	.1520	.2190	.2580	.2720	.2710
.300	.1120	.1490	.2050	.2290	.2110
.520	.0670	.1140	.1570	.2440	.1740
.650	-.1160	-.2170	-.1990	-.1880	-.0920
.775	-.1240	-.2340	-.2250	-.2090	-.1260
.900		.0000	-.2240	-.2040	-.1450

MACH (2) = 2.000 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7280	.6070	.4310	.4720	.3730
.050	.0090	.0200	-.0120	-.0240	-.0120
.150	.1690	.1590	.0670	.0450	.0480
.300	.0920	.0870	.1130	.1290	.1340
.520	.0300	.0460	.0690	.1690	.1080
.650	-.1760	-.2330	-.2220	-.2150	-.1340
.775	-.1680	-.2610	-.2520	-.2400	-.1620
.900		.0000	-.2530	-.2380	-.1810

MACH (2) = 2.000 BETAT (5) = 3.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1280	.5030	.4480	.4150	.2940
.050	.1200	-.0990	-.1520	-.1940	-.1880
.150	.0850	-.0740	-.1370	-.1370	-.1340
.300	.0330	-.0130	-.0880	-.1050	-.0830
.520	-.0190	-.0370	-.0300	-.0640	-.0360
.650	-.1600	-.2400	-.2490	-.2620	-.2110
.775	-.1820	-.2300	-.2750	-.2780	-.2190
.900		.0000	-.2690	-.2670	-.2190

MACH (2) = 2.000 BETAT (6) = 6.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1640	.3950	.4100	.3730	.2260
.050	.0560	-.1800	-.1930	-.2500	-.2460
.150	.0440	-.2050	-.1940	-.2090	-.2060
.300	-.0080	-.0740	-.1770	-.1850	-.1590
.520	-.0460	-.0770	-.1300	-.1460	-.1190

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1349

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV21)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1810	-.2540	-.2710	-.2650	-.2540
.775	-.2030	-.2470	-.2850	-.2580	-.2660
.900		.0000	-.2830	-.2220	-.2590

MACH (2) = 2.000 BETAT (7) = 8.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1400	.2740	.3500	.3090	.1700
.050	.0560	-.1990	-.2230	-.2580	-.2760
.150	-.0040	-.2290	-.2320	-.2440	-.2600
.300	-.0510	-.1300	-.2280	-.2390	-.2220
.520	-.0970	-.1360	-.2070	-.1820	-.1640
.650	-.2220	-.2750	-.2940	-.2590	-.2850
.775	-.2300	-.2800	-.3110	-.2530	-.2770
.900		.0000	-.2880	-.2270	-.2620

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV22) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4390	.2340	.1020	.1660	.1900
.050	.2010	.2820	.3430	.3860	.3620
.150	.1580	.2180	.2860	.3200	.3080
.300	.0860	.1530	.2450	.2790	.2060
.520	.0750	.1640	.2010	.2830	.1020
.650	-.2760	-.3670	-.3670	-.3860	-.2700
.775	-.1910	-.3680	-.3710	-.3810	-.2880
.900		.0000	-.3630	-.3560	-.3000

MACH (1) = 1.555 BETAT (2) = -6.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3830	.2480	.2370	.3100	.2730
.050	.1690	.2540	.2630	.3030	.3000
.150	.1580	.1960	.2250	.2570	.2520
.300	.0860	.1270	.1890	.2230	.1760
.520	.0500	.1260	.1660	.2500	.1010
.650	-.2840	-.3780	-.3800	-.3940	-.2790
.775	-.2150	-.3860	-.3870	-.3970	-.3040
.900		.0000	-.3710	-.3790	-.3210

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3470	.2890	.3040	.3810	.3100
.050	.1860	.2020	.1990	.2260	.2240
.150	.1390	.1490	.1820	.1990	.1940
.300	.0720	.0880	.1460	.1650	.1400
.520	.0320	.0760	.1300	.2120	.1010
.650	-.2830	-.3920	-.3880	-.3990	-.2830
.775	-.2360	-.3870	-.4070	-.4050	-.3150
.900		.0000	-.4030	-.3890	-.3380

MACH (1) = 1.555 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4930	.5070	.3500	.3850	.2580
.050	.0790	-.0360	-.0850	-.0840	-.0840
.150	.1120	.0640	.0700	.0720	.0750
.300	.0390	.0090	.0210	.0160	.0410
.520	-.0210	-.0200	-.0070	.1490	.0120
.650	-.3150	-.4240	-.4130	-.4190	-.3060
.775	-.2650	-.4300	-.4350	-.4350	-.3370
.900		.0000	-.4360	-.4200	-.3580

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1351

AMES 97-707-1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV22)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2820	.3570	.3660	.3850	.2370
.050	.2330	-.1080	-.2380	-.3050	-.3130
.150	.1580	.0260	-.1360	-.2320	-.2230
.300	.0720	-.0250	-.0430	-.0790	-.1020
.520	-.0140	-.0550	-.0300	.0980	.0400
.650	-.2800	-.4220	-.4270	-.4300	-.2990
.775	-.2720	-.3660	-.4540	-.4470	-.3280
.900		.0000	-.4490	-.4310	-.3470

MACH (1) = 1.555 BETAT (6) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4130	.3650	.3400	.3390	.1850
.050	.2600	-.1690	-.2540	-.3560	-.4000
.150	.1690	.0060	-.2390	-.3120	-.3170
.300	.0640	-.0530	-.1530	-.2060	-.2390
.520	-.0410	-.0910	-.0860	-.0360	-.0300
.650	-.2880	-.4440	-.4320	-.4570	-.3430
.775	-.2940	-.4010	-.4630	-.4710	-.3690
.900		.0000	-.4620	-.4420	-.3840

MACH (1) = 1.555 BETAT (7) = 8.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3820	.3380	.2870	.2250	.0770
.050	.1710	-.2590	-.3510	-.3960	-.4520
.150	.0850	-.0790	-.3400	-.4050	-.4240
.300	-.0150	-.1300	-.3070	-.3180	-.3370
.520	-.1070	-.1600	-.2250	-.2320	-.1530
.650	-.3330	-.4630	-.4370	-.4870	-.4400
.775	-.3220	-.4360	-.4720	-.4590	-.4550
.900		.0000	-.4620	-.3780	-.4400

MACH (2) = 2.000 BETAT (1) = -8.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2080	.0820	.1240	.1990	.2420
.050	.1810	.3590	.3860	.4180	.4070
.150	.1600	.2680	.3190	.3490	.3560
.300	.0830	.1820	.2590	.2950	.2780
.520	.0680	.1590	.2070	.3660	.2500
.650	-.1490	-.1940	-.1840	-.1790	-.0790
.775	-.1150	-.2100	-.1930	-.1910	-.1050
.900		.0000	-.1870	-.1790	-.1160

MACH (2) = 2.000 BETAT (2) = -6.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2770	.2490	.2380	.3050	.3060
.050	.1430	.2840	.3400	.3630	.3600
.150	.1340	.2130	.2770	.3100	.3100
.300	.0810	.1440	.2190	.2510	.2360

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV22)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.280	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.0570	.1220	.1720	.2910	.2110
	.650	-.1600	-.2050	-.1900	-.1800	-.0840
	.775	-.1240	-.2190	-.2150	-.2010	-.1180
	.900		.0000	-.2170	-.1960	-.1330
MACH (2) = 2.000 BETAT (3) = -4.220	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.0720	.3880	.3450	.3840	.3420
	.050	.1460	.2520	.2590	.2750	.2850
	.150	.1330	.1900	.2290	.2460	.2490
	.300	.0840	.1230	.1780	.2050	.1920
	.520	.0480	.0930	.1400	.2230	.1610
	.650	-.1560	-.2160	-.2050	-.1930	-.0960
	.775	-.1340	-.2370	-.2260	-.2120	-.1320
	.900		.0000	-.2270	-.2100	-.1510
MACH (2) = 2.000 BETAT (4) = -.110	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7120	.5730	.3990	.4290	.3340
	.050	-.0250	-.0220	-.0360	-.0430	-.0370
	.150	.1380	.0780	.0330	.0250	.0240
	.300	.0620	.0660	.1000	.1010	.1030
	.520	.0150	.0290	.0520	.1530	.0960
	.650	-.1780	-.2350	-.2270	-.2180	-.1430
	.775	-.1720	-.2620	-.2570	-.2450	-.1670
	.900		.0000	-.2570	-.2420	-.1850
MACH (2) = 2.000 BETAT (5) = 4.000	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1020	.4250	.4000	.3840	.2560
	.050	.1300	-.0940	-.1500	-.2050	-.2010
	.150	.0930	-.0450	-.1450	-.1500	-.1450
	.300	.0390	-.0270	-.0900	-.1190	-.0950
	.520	-.0130	-.0460	-.0420	-.0750	-.0580
	.650	-.1670	-.2380	-.2510	-.2630	-.2170
	.775	-.1860	-.2350	-.2730	-.2730	-.2270
	.900		.0000	-.2720	-.2680	-.2280
MACH (2) = 2.000 BETAT (6) = 6.050	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2680	.3210	.3700	.3260	.1910
	.050	.1040	-.1790	-.1990	-.2550	-.2580
	.150	.0550	-.0790	-.2020	-.2130	-.2200
	.300	-.0030	-.0840	-.1840	-.1980	-.1730
	.520	-.0390	-.0920	-.1370	-.1400	-.1380

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1353

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV22)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1800	-.2560	-.2670	-.2820	-.2620
.775	-.2040	-.2550	-.2870	-.2770	-.2740
.900		.0000	-.2890	-.2550	-.2650

MACH (2) = 2.000 BETAT (7) = 8.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1760	.1870	.2840	.2490	.1180
.050	.0620	-.2120	-.2270	-.2550	-.2630
.150	-.0040	-.1950	-.2400	-.2470	-.2610
.300	-.0520	-.1300	-.2330	-.2420	-.2390
.520	-.0890	-.1400	-.2230	-.2050	-.1510
.650	-.1990	-.2780	-.2960	-.2740	-.2810
.775	-.2210	-.2770	-.3120	-.2650	-.2870
.900		.0000	-.3020	-.2440	-.2540

AMES 97-797 1A9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV23) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.400

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5630	.5050	.4700	.5820	.5510
.050	.6600	.6250	.6650	.7020	.6610
.150	.5290	.5360	.5890	.6000	.5600
.300	.4460	.4760	.5050	.5320	.4420
.520	.3830	.4320	.4050	.5060	.3270
.650	-.0630	.2170	.3950	.3810	.0130
.775	-.0780	.2040	.3670	.3390	.0470
.900		.0000	.3460	.2570	-.0030

MACH (1) = 1.555 BETAT (2) = -6.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6390	.6200	.5630	.7030	.6050
.050	.6030	.5640	.5680	.6110	.5740
.150	.4750	.4790	.5240	.5300	.5010
.300	.3930	.4070	.4510	.4650	.3970
.520	.3240	.3880	.3640	.4630	.3110
.650	-.0940	.1960	.3650	.3490	-.0200
.775	-.1070	.1570	.3190	.2970	.0110
.900		.0000	.2780	.2110	-.0350

MACH (1) = 1.555 BETAT (3) = -4.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6820	.7250	.6030	.7230	.6160
.050	.5560	.4650	.4450	.4850	.4810
.150	.4460	.4160	.4230	.4380	.4170
.300	.3560	.3410	.3690	.3830	.3400
.520	.2640	.3010	.3000	.4060	.2910
.650	-.1240	.1550	.3270	.3140	-.0470
.775	-.1460	.1040	.2620	.2600	-.0110
.900		.0000	.2240	.1770	-.0570

MACH (1) = 1.555 BETAT (4) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9310	.8200	.6830	.7560	.5910
.050	.2500	.1170	.0570	.0530	.0380
.150	.3550	.2860	.2760	.2770	.2810
.300	.2530	.2110	.2160	.2140	.2430
.520	.1590	.1770	.1690	.2920	.2270
.650	-.1920	.0640	.1930	.1920	-.1190
.775	-.1980	.0050	.1530	.1710	-.0750
.900		.0000	.1170	.0830	-.0740

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1355

AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL

(RBOV23)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6350	.8070	.7080	.7080	.5120
.050	.1830	-.1350	-.2740	-.2740	-.2800
.150	.2480	.0490	-.1740	-.1640	-.1700
.300	.1520	.0990	.0210	-.1150	-.0720
.520	.0610	.0650	.0930	-.0210	.0000
.650	-.1930	-.0220	.0630	.0850	-.2800
.775	-.2210	-.0870	.0420	.0950	-.1740
.900		.0000	.0110	.0200	-.0620

MACH (1) = 1.555 BETAT (6) = 8.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3860	.6960	.6690	.6080	.3900
.050	-.0230	-.1790	-.3030	-.4010	-.4110
.150	.1330	-.1760	-.2390	-.3140	-.3310
.300	.0720	-.1350	-.1260	-.2580	-.2300
.520	-.0170	-.0950	-.0470	-.1890	-.1360
.650	-.2110	-.0780	-.0840	-.1410	-.3760
.775	-.2320	-.1130	-.0820	-.0980	-.3490
.900		.0000	-.0960	-.1110	-.2900

MACH (2) = 2.000 BETAT (1) = -8.380

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5110	.5680	.5700	.7000	.6700
.050	.6940	.6710	.7050	.7360	.7150
.150	.5210	.5420	.6250	.6480	.6380
.300	.4040	.4500	.5490	.5750	.5340
.520	.3700	.4470	.4750	.6100	.4990
.650	.0000	.3520	.5060	.5260	.1790
.775	.0560	.3060	.4620	.4730	.1880
.900		.0000	.4210	.4310	.1350

MACH (2) = 2.000 BETAT (2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6050	.7170	.6210	.7790	.7230
.050	.6310	.6330	.6270	.6460	.6350
.150	.5030	.5210	.5650	.5820	.5680
.300	.4100	.4250	.4900	.5070	.4760
.520	.3490	.3890	.4000	.5060	.4280
.650	-.0190	.3050	.4490	.4790	.1430
.775	.0180	.2540	.4090	.4290	.1590
.900		.0000	.3670	.3870	.1080

MACH (2) = 2.000 BETAT (3) = -4.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7690	.8570	.7180	.8250	.7260
.050	.5830	.5480	.4970	.5120	.5220
.150	.4780	.4720	.4870	.5030	.4950
.300	.3790	.3870	.4270	.4400	.4250

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV23)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.3060	.3190	.3440	.4230	.3690
	.650	-.0370	.2670	.3690	.4190	.1020
	.775	-.0120	.2120	.3550	.3760	.1130
	.900		.0000	.3160	.3430	.0760
MACH (2) = 2.000 BETAT (4) = -.170	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.9990	.9580	.7680	.8560	.6930
	.050	.2910	.2290	.1550	.1320	.1280
	.150	.4210	.3690	.3600	.2420	.2300
	.300	.3260	.2940	.3070	.3230	.3440
	.520	.2320	.2400	.2450	.3040	.2900
	.650	-.0620	.1690	.2610	.2790	.0100
	.775	-.0580	.1110	.2310	.2530	.0270
	.900		.0000	.2040	.2160	.0090
MACH (2) = 2.000 BETAT (5) = 3.930	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7370	.9250	.7650	.8130	.6360
	.050	.1200	.0140	-.0880	-.0630	-.0540
	.150	.2900	.1040	.0080	.0170	.0230
	.300	.2240	.1930	.0540	.0500	.0780
	.520	.1450	.1470	.1540	.1010	.1230
	.650	-.0720	.0970	.1690	.0790	-.1200
	.775	-.1000	.0380	.1450	.1530	-.0990
	.900		.0000	.1200	.1480	-.0410
MACH (2) = 2.000 BETAT (6) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.4880	.8210	.7500	.7660	.5950
	.050	.0010	-.0730	-.1160	-.1380	-.1340
	.150	.2140	-.0680	-.0910	-.0730	-.0650
	.300	.1350	-.0050	-.0200	-.0400	.0000
	.520	.0760	.0410	.0860	.0160	.0550
	.650	-.0690	.0770	.0650	-.0030	-.1690
	.775	-.1390	.0070	.0610	.0290	-.1530
	.900		.0000	.0500	.0230	-.1430
MACH (2) = 2.000 BETAT (7) = 8.040	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3420	.7170	.7110	.6840	.5160
	.050	.0360	-.0800	-.1420	-.2010	-.2000
	.150	.0140	-.0920	-.1570	-.1480	-.1450
	.300	.0020	-.0980	-.0790	-.1200	-.0800
	.520	-.0340	-.0960	-.0240	-.0660	-.0260

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1357

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV23)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1360	-.1060	-.0530	-.0800	-.2100
.775	-.1770	-.0910	-.0470	-.0560	-.2030
.900		.0000	-.0480	-.0780	-.1960

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV24) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4340	.4110	.3890	.4830	.4510
.050	.5400	.5240	.5640	.6140	.5750
.150	.4120	.4360	.5010	.5250	.4920
.300	.3320	.3750	.4320	.4590	.3740
.520	.2820	.3580	.3460	.4530	.2820
.650	-.1120	.1700	.3380	.3290	-.0170
.775	-.1230	.1480	.3070	.2910	.0030
.900		.0000	.2730	.2220	-.0480

MACH (1) = 1.555 BETAT (2) = -6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5580	.5420	.4920	.6030	.5090
.050	.5190	.4790	.4840	.5120	.4950
.150	.3880	.3990	.4410	.4540	.4280
.300	.3030	.3270	.3800	.3970	.3400
.520	.2520	.3240	.3090	.4070	.2700
.650	-.1500	.1500	.3160	.3000	-.0470
.775	-.1420	.1140	.2660	.2550	-.0250
.900		.0000	.2290	.1860	-.0720

MACH (1) = 1.555 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4550	.6430	.5110	.6300	.5160
.050	.4610	.3980	.3690	.4050	.4040
.150	.3600	.3420	.3500	.3680	.3480
.300	.2710	.2660	.2990	.3120	.2760
.520	.1940	.2260	.2420	.3390	.2420
.650	-.1610	.1100	.2740	.2680	-.0730
.775	-.1740	.0600	.2120	.2160	-.0480
.900		.0000	.1760	.1500	-.0960

MACH (1) = 1.555 BETAT (4) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8490	.7390	.5830	.6550	.4970
.050	.2000	.0710	.0050	.0060	.0100
.150	.2860	.2210	.2080	.2220	.2200
.300	.1930	.1580	.1620	.1630	.1860
.520	.1000	.1180	.1120	.2220	.1720
.650	-.2320	.0180	.1360	.1370	-.1500
.775	-.2310	-.0370	.1030	.1220	-.1170
.900		.0000	.0690	.0550	-.1310

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1359

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV24)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4320	.7240	.5970	.6000	.4060
.050	.2360	-.1530	-.2940	-.2990	-.3020
.150	.2000	-.0140	-.2040	-.1990	-.2020
.300	.0990	.0520	-.0200	-.1520	-.1160
.520	-.0030	.0150	.0240	-.0540	-.0300
.650	-.2080	-.0900	.0090	.0340	-.2920
.775	-.2390	-.1340	-.0100	.0420	-.2010
.900		.0000	-.0370	-.0180	-.1250

MACH (1) = 1.555 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3660	.6530	.6140	.5920	.3900
.050	.1560	-.1440	-.2700	-.3430	-.3540
.150	.1770	-.1290	-.2030	-.2490	-.2500
.300	.0710	.0380	-.0640	-.1890	-.1420
.520	-.0130	.0130	.0190	-.0760	-.0690
.650	-.1910	-.0970	-.0210	.0030	-.3210
.775	-.2390	-.1080	-.0350	.0270	-.2450
.900		.0000	-.0530	-.0320	-.1410

MACH (1) = 1.555 BETAT (7) = 8.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2450	.5860	.5660	.5090	.3000
.050	.0780	-.2080	-.3010	-.4170	-.4250
.150	.1020	-.2240	-.2570	-.3410	-.3520
.300	.0140	-.1360	-.1840	-.2840	-.2490
.520	-.0690	-.0880	-.1170	-.2060	-.1730
.650	-.2480	-.1340	-.1330	-.1490	-.3890
.775	-.2490	-.1420	-.1310	-.1010	-.3670
.900		.0000	-.1410	-.1380	-.3110

MACH (2) = 2.000 BETAT (1) = -8.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3700	.4750	.4670	.5610	.5700
.050	.5740	.5840	.6230	.6430	.6320
.150	.4260	.4590	.5380	.5680	.5540
.300	.3150	.3660	.4650	.4960	.4530
.520	.2740	.3550	.3980	.5160	.4330
.650	-.0500	.2850	.4330	.4580	.1400
.775	.0090	.2510	.3880	.4190	.1470
.900		.0000	.3510	.3830	.1000

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4410	.6080	.5280	.6360	.6080
.050	.5200	.5570	.5540	.5630	.5550
.150	.4180	.4470	.4840	.5030	.4900
.300	.3240	.3460	.4120	.4330	.4040

AMES 97-707 IA9 Q2A + S3 + T9 LEFT VERTICAL

(RBOV24)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.2710	.3160	.3280	.4280	.3630
	.650	-.0570	.2460	.3680	.4090	.1040
	.775	-.0180	.2050	.3420	.3700	.1120
	.900		.0000	.3010	.3380	.0660
MACH (2) = 2.000 BETAT (3) = -4.230	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.5330	.7250	.6160	.6960	.6220
	.050	.4440	.4700	.4360	.4400	.4520
	.150	.3730	.3940	.4140	.4270	.4170
	.300	.2890	.3060	.3550	.3660	.3500
	.520	.2240	.2460	.2770	.3460	.2960
	.650	-.0730	.1970	.2980	.3530	.0560
	.775	-.0530	.1580	.2830	.3050	.0660
	.900		.0000	.2450	.2860	.0270
MACH (2) = 2.000 BETAT (4) = -.160	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.8680	.8400	.6630	.7220	.5910
	.050	.2090	.1860	.1150	.0920	.0860
	.150	.3340	.2960	.2890	.1810	.1810
	.300	.2440	.2220	.2390	.2620	.2790
	.520	.1630	.1680	.1770	.2350	.2270
	.650	-.0990	.1110	.1070	.2170	-.0250
	.775	-.0970	.0620	.1720	.1940	-.0160
	.900		.0000	.1430	.1660	-.0350
MACH (2) = 2.000 BETAT (5) = 3.920	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.5090	.8010	.6770	.6930	.5410
	.050	.1790	-.0200	-.1190	-.0990	-.0900
	.150	.2150	.0390	-.0400	-.0320	-.0230
	.300	.1460	.1290	.0060	.0040	.0270
	.520	.0670	.0820	.0900	.0490	.0640
	.650	-.0950	.0320	.1050	.0320	-.1450
	.775	-.1270	-.0260	.0880	.0850	-.1300
	.900		.0000	.0650	.1000	-.0940
MACH (2) = 2.000 BETAT (6) = 5.960	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3760	.7030	.6550	.6490	.4880
	.050	.0190	-.0970	-.1580	-.1670	-.1640
	.150	.1300	-.1100	-.1240	-.1130	-.1020
	.300	.0770	-.0650	-.0770	-.0810	-.0470
	.520	.0110	-.0210	.0270	-.0370	-.0010

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1361

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV24)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1180	.0040	.0110	-.0470	-.1900
.775	-.1630	-.0340	.0100	-.0220	-.1810
.900		.0000	.0000	-.0170	-.1720

MACH (2) = 2.000 BETAT (7) = 8.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2180	.6160	.6430	.5920	.4290
.050	-.0120	-.1130	-.1670	-.2140	-.2150
.150	-.0270	-.1270	-.1760	-.1720	-.1680
.300	-.0290	-.1330	-.1230	-.1490	-.1110
.520	-.0610	-.1300	-.0790	-.1000	-.0650
.650	-.1690	-.1440	-.0990	-.1100	-.2260
.775	-.1930	-.1270	-.0970	-.1060	-.2240
.900		.0000	-.0970	-.1080	-.2210

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV25) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2110	.3290	.3050	.3860	.3770
		.050	.3800	.4250	.4660	.5240	.5010
		.150	.3020	.3400	.4190	.4450	.4190
		.300	.2310	.2820	.3640	.3880	.3160
		.520	.1930	.2780	.2890	.3910	.2430
		.650	-.1340	.1200	.2820	.2780	-.0490
		.775	-.1520	.1060	.2530	.2450	-.0290
		.900		.0000	.2210	.1950	-.0770

MACH (1) = 1.555	BETAT (2) = -6.270	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.4160	.4700	.4200	.5170	.4330
		.050	.3250	.3770	.3890	.4270	.4110
		.150	.2570	.3090	.3520	.3750	.3540
		.300	.1950	.2440	.3010	.3300	.2720
		.520	.1510	.2370	.2450	.3470	.2190
		.650	-.1740	.0980	.2610	.2470	-.0770
		.775	-.1750	.0670	.2100	.2070	-.0600
		.900		.0000	.1770	.1580	-.1050

MACH (1) = 1.555	BETAT (3) = -4.240	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3130	.5640	.4390	.5250	.4410
		.050	.3480	.3350	.3000	.3370	.3390
		.150	.2790	.2720	.2860	.3040	.2940
		.300	.1920	.2000	.2370	.2510	.2290
		.520	.1270	.1640	.1820	.2890	.2060
		.650	-.2090	.0630	.2210	.2240	-.0950
		.775	-.2010	.0200	.1680	.1780	-.0750
		.900		.0000	.1310	.1310	-.1240

MACH (1) = 1.555	BETAT (4) = -.130	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.7060	.6630	.4960	.5600	.4100
		.050	.1720	.0210	-.0270	-.0390	-.0370
		.150	.2170	.1650	.1570	.1740	.1720
		.300	.1330	.1000	.1050	.1130	.1400
		.520	.0490	.0640	.0640	.1620	.1190
		.650	-.2670	-.0250	.0860	.0850	-.1790
		.775	-.2520	-.0710	.0560	.0690	-.1530
		.900		.0000	.0220	.0220	-.1730

AMES 97-707 IA9 C2A + S3 + T9 LEFT VERTICAL

(RBOV25)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3100	.6410	.5080	.5180	.3440
	.050	.1990	-.1640	-.2980	-.3200	-.3170
	.150	.1320	-.0410	-.2420	-.2320	-.2120
	.300	.0440	.0100	-.0570	-.1600	-.1020
	.520	-.0410	-.0330	-.0210	.0850	.0440
	.650	-.2520	-.1500	.0350	.0740	-.2020
	.775	-.2650	-.1530	.0190	.0670	-.1400
	.900		.0000	-.0140	.0150	-.1220
MACH (1) = 1.555 BETAT (6) = 5.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3340	.5790	.5210	.5040	.3210
	.050	.2380	-.1560	-.2660	-.3500	-.3570
	.150	.1520	-.0330	-.1970	-.2600	-.2640
	.300	.0420	.0360	-.0890	-.2010	-.1610
	.520	-.0390	-.0240	-.0030	.0040	-.0550
	.650	-.2220	-.1640	-.0430	-.0070	-.2920
	.775	-.2680	-.1470	-.0650	-.0080	-.2010
	.900		.0000	-.0850	-.0480	-.1800
MACH (1) = 1.555 BETAT (7) = 8.040	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1540	.4740	.4680	.4080	.2280
	.050	.0820	-.2560	-.3120	-.4320	-.4450
	.150	.0850	-.2790	-.3040	-.3590	-.3760
	.300	-.0030	-.0310	-.2310	-.3130	-.2770
	.520	-.0890	-.0740	-.1530	-.2000	-.2070
	.650	-.2920	-.2030	-.1670	-.1500	-.4010
	.775	-.2970	-.1770	-.1670	-.1240	-.3740
	.900		.0000	-.1730	-.1600	-.3060
MACH (2) = 2.000 BETAT (1) = -8.290	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1170	.3540	.3500	.4270	.4540
	.050	.4340	.4990	.5410	.5580	.5480
	.150	.3290	.3790	.4670	.4830	.4780
	.300	.2300	.2810	.3950	.4190	.3830
	.520	.1900	.2570	.3240	.4370	.3650
	.650	-.0850	.2200	.3570	.3980	.1070
	.775	-.0360	.2020	.3320	.3710	.1070
	.900		.0000	.2980	.3300	.0660
MACH (2) = 2.000 BETAT (2) = -6.250	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2910	.5110	.4320	.5210	.5030
	.050	.3900	.4790	.4830	.4870	.4820
	.150	.2960	.3740	.4160	.4280	.4250
	.300	.2300	.2770	.3460	.3630	.3420

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV25)

SECTION (1) LEFT VERTICAL		DEPENDENT VARIABLE CP				
MACH (2) = 2.000 BETAT (2) = -6.250	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.1920	.2410	.2710	.3670	.3030
	.650	-.0810	.1870	.3030	.3540	.0670
	.775	-.0540	.1540	.2810	.3170	.0730
	.900		.0000	.2470	.2850	.0280
MACH (2) = 2.000 BETAT (3) = -4.210	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3290	.6120	.5110	.5760	.5250
	.050	.3150	.3980	.3790	.3800	.3920
	.150	.2750	.3220	.3530	.3600	.3530
	.300	.2120	.2420	.2930	.3060	.2880
	.520	.1530	.1910	.2160	.2870	.2420
	.650	-.0990	.1420	.2420	.2940	.0240
	.775	-.0840	.1110	.2290	.2580	.0280
	.900		.0000	.1980	.2360	-.0100
MACH (2) = 2.000 BETAT (4) = -.140	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7340	.7390	.5650	.6150	.5030
	.050	.1730	.1370	.0640	.0460	.0440
	.150	.2570	.2350	.2190	.1210	.1240
	.300	.1780	.1600	.1780	.1940	.2140
	.520	.1060	.1100	.1250	.1760	.1750
	.650	-.1280	.0610	.1410	.1660	-.0570
	.775	-.1280	.0220	.1190	.1440	-.0520
	.900		.0000	.0970	.1190	-.0710
MACH (2) = 2.000 BETAT (5) = 3.950	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2970	.6800	.5840	.6000	.4460
	.050	.1710	-.0680	-.1480	-.1340	-.1260
	.150	.1350	-.0400	-.0790	-.0750	-.0660
	.300	.0800	.0720	-.0390	-.0420	-.0210
	.520	.0120	.0270	.0330	-.0030	.0170
	.650	-.1410	-.0390	.0430	-.0200	-.1690
	.775	-.1570	-.0610	.0310	.0260	-.1580
	.900		.0000	.0130	.0540	-.1310
MACH (2) = 2.000 BETAT (6) = 8.020	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.0520	.4950	.5290	.4680	.3160
	.050	-.0180	-.1430	-.1910	-.2450	-.2460
	.150	-.0020	-.1610	-.1930	-.2060	-.2090
	.300	-.0510	-.1720	-.1670	-.1820	-.1600
	.520	-.1170	-.1650	-.1340	-.1420	-.1200

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1365

AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL

(RBOV25)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.2170	-.1780	-.1430	-.1460	-.2450
.775	-.2130	-.1670	-.1450	-.1440	-.2480
.900		.0000	-.1490	-.1400	-.2480

AMES 97-707 1A9 O2A + S3. + T9 LEFT VERTICAL

(RBOV26) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2360	.2630	.2210	.2930	.2920
.050	.2230	.3380	.3890	.4480	.4240
.150	.1960	.2620	.3390	.3760	.3580
.300	.1490	.2080	.2920	.3250	.2620
.520	.1200	.2120	.2340	.3360	.2020
.650	-.1410	.0660	.2220	.2340	-.0720
.775	-.1670	.0950	.2050	.2030	-.0600
.900		.0000	.1900	.1730	-.1030

MACH (1) = 1.555 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2890	.3500	.3450	.4210	.3720
.050	.2390	.2730	.3140	.3490	.3420
.150	.1990	.2270	.2810	.3060	.2910
.300	.1360	.1720	.2390	.2570	.2160
.520	.0910	.1650	.1880	.2860	.1810
.650	-.2080	.0430	.1980	.2040	-.1020
.775	-.1910	.0280	.1580	.1670	-.0860
.900		.0000	.1310	.1350	-.1280

MACH (1) = 1.555 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2550	.4660	.3670	.4660	.3890
.050	.1700	.2490	.2390	.2640	.2730
.150	.1490	.2010	.2210	.2470	.2400
.300	.0990	.1340	.1830	.2070	.1750
.520	.0430	.1040	.1350	.2370	.1710
.650	-.2280	.0120	.1700	.1860	-.1210
.775	-.2090	-.0220	.1310	.1400	-.1080
.900		.0000	.0960	.1020	-.1530

MACH (1) = 1.555 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5950	.5850	.4170	.4640	.3330
.050	.1190	-.0120	-.0600	-.0620	-.0520
.150	.1590	.1150	.1100	.1240	.1230
.300	.0810	.0480	.0630	.0650	.0850
.520	.0040	.0190	.0280	.1050	.0720
.650	-.2910	-.0600	.0500	.0470	-.2000
.775	-.2370	-.1000	.0190	.0280	-.1830
.900		.0000	-.0140	-.0030	-.2070

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1367

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV26)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.960	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2440	.5410	.4250	.4690	.3000
	.050	.1900	-.1680	-.2490	-.3080	-.3050
	.150	.1220	.0180	-.2240	-.1970	-.2040
	.300	.0290	-.0130	-.0100	-.1330	-.1100
	.520	-.0330	-.0340	.0150	.0770	.0930
	.650	-.2460	-.1690	-.0080	.0160	-.1900
	.775	-.2600	-.1380	-.0420	.0120	-.1740
	.900		.0000	-.0740	-.0220	-.1780
MACH (1) = 1.555 BETAT (6) = 6.010	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1410	.3860	.4410	.4280	.2650
	.050	.1490	-.0680	-.2700	-.3610	-.3720
	.150	.1230	.0150	-.2050	-.2790	-.2890
	.300	.0510	-.0280	-.1170	-.2290	-.1960
	.520	-.0240	-.0650	-.0400	.0070	-.0270
	.650	-.2480	-.1740	-.0730	-.0540	-.2630
	.775	-.2770	-.1780	-.1030	-.0520	-.2250
	.900		.0000	-.1200	-.0850	-.2210
MACH (1) = 1.555 BETAT (7) = 8.050	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2870	.3780	.3790	.3270	.1540
	.050	.1740	-.2730	-.3270	-.4180	-.4580
	.150	.0850	-.0680	-.3110	-.3860	-.3960
	.300	-.0030	-.0960	-.2710	-.3190	-.3080
	.520	-.0990	-.1200	-.1800	-.1480	-.1810
	.650	-.3190	-.2300	-.2000	-.1980	-.3840
	.775	-.2970	-.2170	-.2010	-.1650	-.3430
	.900		.0000	-.1900	-.1980	-.3360
MACH (2) = 2.000 BETAT (1) = -8.280	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1500	.2620	.2650	.3450	.3520
	.050	.3360	.3950	.4680	.5000	.4840
	.150	.2500	.2810	.3870	.4250	.4220
	.300	.1440	.2000	.3180	.3570	.3350
	.520	.1190	.1990	.2660	.3830	.3250
	.650	-.1140	.1650	.3000	.3460	.0760
	.775	-.0570	.1530	.2760	.3210	.0750
	.900		.0000	.2460	.2800	.0350
MACH (2) = 2.000 BETAT (2) = -6.230	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1590	.3820	.3400	.3990	.3960
	.050	.3020	.4010	.4180	.4240	.4240
	.150	.2670	.3030	.3510	.3670	.3670
	.300	.1830	.2090	.2820	.3060	.2840

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV26)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.230	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.1350	.1730	.2130	.3090	.2470
	.650	-.1120	.1290	.2410	.2970	.0410
	.775	-.0790	.1120	.2390	.2730	.0380
	.900		.0000	.2100	.2410	.0010
MACH (2) = 2.000 BETAT (3) = -4.200	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1780	.5200	.4290	.4720	.4320
	.050	.1920	.3160	.3250	.3320	.3450
	.150	.1830	.2530	.2920	.3030	.3050
	.300	.1470	.1820	.2320	.2530	.2440
	.520	.0980	.1410	.1700	.2470	.1990
	.650	-.0580	.0870	.1970	.2510	.0030
	.775	-.1040	.0570	.1810	.2190	.0010
	.900		.0000	.1560	.1920	-.0380
MACH (2) = 2.000 BETAT (4) = -.120	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7280	.6470	.4860	.5290	.4260
	.050	.0570	.0620	.0250	.0090	.0160
	.150	.1910	.1890	.1340	.0820	.0850
	.300	.1250	.1180	.1410	.1580	.1770
	.520	.0590	.0690	.0900	.1370	.1360
	.650	-.1680	.0270	.1020	.1310	-.0780
	.775	-.1540	.0050	.0830	.1100	-.0760
	.900		.0000	.0650	.0900	-.1000
MACH (2) = 2.000 BETAT (5) = 3.950	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1670	.5780	.4910	.4840	.3480
	.050	.1340	-.0970	-.1610	-.1660	-.1620
	.150	.0900	-.0470	-.1170	-.1140	-.1110
	.300	.0420	.0130	-.0770	-.0800	-.0590
	.520	-.0110	-.0210	-.0030	-.0420	-.0200
	.650	-.1610	-.1030	-.0020	-.0440	-.1640
	.775	-.1740	-.0970	-.0190	.0020	-.1710
	.900		.0000	-.0350	.0120	-.1490
MACH (2) = 2.000 BETAT (6) = 5.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1090	.4650	.4670	.4250	.2820
	.050	.0770	-.1440	-.1770	-.2290	-.2280
	.150	.0520	-.1640	-.1770	-.1910	-.1890
	.300	-.0200	-.0860	-.1570	-.1660	-.1400
	.520	-.0510	-.0750	-.0900	-.1240	-.1060

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1369

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV26)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1910	-.1310	-.0990	-.1220	-.2360
.775	-.1940	-.1250	-.0990	-.1000	-.2310
.900		.0000	-.1020	-.0880	-.2220

MACH (2) = 2.000 BETAT (7) = 8.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1420	.3760	.4310	.3810	.2190
.050	.0670	-.1960	-.2210	-.2720	-.2770
.150	-.0100	-.2220	-.2270	-.2420	-.2490
.300	-.0450	-.1350	-.2230	-.2220	-.2050
.520	-.1130	-.1360	-.1820	-.1900	-.1660
.650	-.2280	-.1790	-.1870	-.1910	-.2730
.775	-.2240	-.1770	-.1910	-.1910	-.2740
.900		.0000	-.1940	-.1880	-.2710

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV27) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 CRBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3070	.2350	.1640	.2280	.2400
.050	.2200	.3360	.3610	.4120	.3920
.150	.1860	.2540	.3080	.3450	.3270
.300	.1250	.1880	.2610	.2940	.2320
.520	.1070	.2010	.2080	.3040	.1790
.650	-.2390	.0770	.2040	.2140	-.0810
.775	-.1010	.0560	.1790	.1830	-.0780
.900		.0000	.1490	.1490	-.1230

MACH (1) = 1.555 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3800	.3180	.2980	.3660	.3230
.050	.1920	.2360	.2860	.3260	.3180
.150	.1670	.1940	.2490	.2780	.2670
.300	.1050	.1440	.2100	.2360	.1960
.520	.0640	.1390	.1630	.2640	.1640
.650	-.2320	.0250	.1680	.1850	-.1150
.775	-.2000	.0150	.1350	.1450	-.1010
.900		.0000	.1170	.1160	-.1440

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2680	.3750	.3390	.4230	.3520
.050	.1600	.2120	.2060	.2420	.2460
.150	.1340	.1690	.1980	.2220	.2130
.300	.0810	.1080	.1640	.1810	.1560
.520	.0340	.0860	.1230	.2170	.1520
.650	-.2190	-.0220	.1490	.1620	-.1350
.775	-.2020	-.0160	.1040	.1190	-.1250
.900		.0000	.0770	.0880	-.1680

MACH (1) = 1.555 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5610	.5430	.3820	.4230	.2940
.050	.0530	-.0290	-.0750	-.0930	-.0750
.150	.1260	.0860	.0910	.0930	.0970
.300	.0550	.0240	.0420	.0380	.0610
.520	-.0150	.0020	.0040	.0800	.0530
.650	-.3060	-.0730	.0280	.0240	-.2120
.775	-.2380	-.1120	-.0030	.0080	-.1960
.900		.0000	-.0330	-.0180	-.2220

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV27)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2100	.4620	.4050	.4320	.2740
.050	.2200	-.1390	-.2410	-.3090	-.3120
.150	.1320	.0350	-.1360	-.2140	-.2120
.300	.0480	-.0100	-.0340	-.0830	-.1170
.520	-.0280	-.0480	-.0100	.0560	.0670
.650	-.2430	-.1730	-.0400	-.0130	-.2130
.775	-.2610	-.1620	-.0760	-.0210	-.1930
.900		.0000	-.0930	-.0510	-.2040

MACH (1) = 1.555 BETAT (6) = 6.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2630	.2950	.3890	.3880	.2190
.050	.1430	-.0640	-.2740	-.3760	-.3940
.150	.1210	-.0040	-.2220	-.3010	-.3060
.300	.0610	-.0450	-.1360	-.2460	-.2220
.520	-.0200	-.0810	-.0710	-.0220	-.0370
.650	-.2530	-.1900	-.0930	-.0860	-.2680
.775	-.2760	-.1790	-.1260	-.0790	-.2440
.900		.0000	-.1380	-.1030	-.2440

MACH (1) = 1.555 BETAT (7) = 8.090

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3690	.3670	.3280	.2800	.1180
.050	.1540	-.2910	-.3370	-.3950	-.4460
.150	.0800	-.0780	-.3250	-.3830	-.4200
.300	-.0090	-.1190	-.2940	-.2890	-.3250
.520	-.1040	-.1450	-.1970	-.2020	-.1330
.650	-.3150	-.2420	-.2150	-.2180	-.3610
.775	-.2940	-.2290	-.2000	-.1930	-.3390
.900		.0000	-.1840	-.2290	-.3490

MACH (2) = 2.000 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1940	.1840	.1920	.2700	.2940
.050	.2120	.3290	.4210	.4580	.4460
.150	.1710	.2500	.3470	.3850	.3880
.300	.0980	.1830	.2860	.3230	.3070
.520	.0920	.1700	.2320	.3490	.3020
.650	-.1340	.1320	.2600	.3040	.0540
.775	-.0730	.1210	.2330	.2850	.0550
.900		.0000	.2100	.2520	.0170

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2230	.3210	.3030	.3620	.3540
.050	.2750	.3630	.3830	.4100	.4040
.150	.2320	.2670	.3190	.3510	.3500
.300	.1480	.1780	.2570	.2910	.2690

AMES 97-707 1A9 02A + 55 + T9 LEFT VERTICAL

(RBOV27)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE OF

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1100	.1510	.2010	.2940	.2380
.650	-.1320	.1080	.2360	.2790	.0330
.775	-.0890	.0960	.2170	.2580	.0310
.900		.0000	.1870	.2280	-.0060

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1390	.4670	.3980	.4330	.3920
.050	.1680	.2810	.2980	.3130	.3190
.150	.1650	.2270	.2670	.2850	.2880
.350	.1340	.1590	.2130	.2320	.2210
.520	.0860	.1180	.1510	.2210	.1790
.650	-.1020	.0670	.1750	.2270	-.0100
.775	-.0990	.0390	.1630	.2000	-.0130
.900		.0000	.1430	.1770	-.0500

MACH (2) = 2.000 BETAT (4) = -.120

Z/BV	.158	.316	.600	.845	.925
X/CV					
.000	.7340	.6090	.4430	.4820	.3850
.050	.0300	.0320	.0000	-.0080	.0000
.100	.1700	.1630	.0960	.0570	.0620
.300	.0990	.0950	.1170	.1330	.1500
.500	.0360	.0490	.0710	.1170	.1210
.650	-.1770	.0120	.0850	.1130	-.0860
.775	-.1630	-.0020	.0680	.0930	-.0830
.900		.0000	.0510	.0750	-.1070

HACH (2) = 2.000 BETAT (5) = 3.970

Z/BV	.158	.316	.630	.840	.925
X/CV					
.000	.1210	.5170	.4550	.4380	.3000
.050	.1350	-.0970	-.1530	-.1810	-.1760
.150	.1000	-.0310	-.1290	-.1290	-.1270
.300	.0420	-.0050	-.0800	-.0950	-.0740
.520	-.0150	-.0320	-.0180	-.0590	-.0340
.650	-.1620	-.1060	-.0190	-.0520	-.1860
.775	-.1780	-.1030	-.0320	-.0640	-.1750
.900		.0000	-.0510	-.0670	-.1570

NACH (2) = 2.000 BETAT (6) = 6.030

Z/BV	.158	.316	.632	.849	.925
X/CV					
.000	.2080	.4080	.4190	.3880	.2370
.050	.0680	-.1740	-.1920	-.2390	-.2390
.150	.0470	-.1980	-.1900	-.2080	-.2050
.300	-.0050	-.0650	-.1750	-.1820	-.1550
.500	-.0430	-.0760	-.1070	-.1410	-.1260

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1373

AMES 97-707 1A9 O2A + S3 + T9 LEFT VERTICAL

(RBOV27)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1850	-.1370	-.1140	-.1480	-.2460
.775	-.2000	-.1290	-.1170	-.1230	-.2410
.900		.0000	-.1170	-.1040	-.2350

MACH (2) = 2.000 BETAT (7) = 8.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1490	.2750	.3540	.3140	.1750
.050	.0650	-.1960	-.2230	-.2540	-.2700
.150	-.0010	-.2270	-.2320	-.2430	-.2590
.300	-.0450	-.1280	-.2270	-.2340	-.2230
.520	-.0970	-.1370	-.1960	-.1800	-.1710
.650	-.2250	-.1850	-.2010	-.1990	-.2730
.775	-.2240	-.1780	-.2050	-.1800	-.2760
.900		.0000	-.2120	-.1880	-.2640

AMES 97-707 IA9 ORA + S3 + T9 LEFT VERTICAL

(RBOV28) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4580	.2360	.1130	.1750	.1990
.050	.2080	.2810	.3320	.3770	.3590
.150	.1550	.2170	.2780	.3110	.2980
.300	.0850	.1540	.2370	.2660	.2110
.520	.0730	.1690	.1890	.2870	.1620
.650	-.2830	.0610	.1910	.2000	-.0910
.775	-.1870	.0390	.1590	.1700	-.0840
.900		.0000	.1290	.1390	-.1280

MACH (1) = 1.555 BETAT (2) = -6.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3710	.2460	.2350	.3080	.2740
.050	.1700	.2430	.2560	.2960	.2930
.150	.1550	.1890	.2230	.2530	.2480
.300	.0870	.1230	.1820	.2190	.1710
.520	.0500	.1260	.1460	.2420	.1430
.650	-.2890	.0340	.1480	.1620	-.1230
.775	-.2090	.0090	.1270	.1320	-.1150
.900		.0000	.0950	.1010	-.1580

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3530	.2930	.3070	.3860	.3090
.050	.1780	.1990	.1890	.2160	.2140
.150	.1350	.1490	.1780	.1950	.1850
.300	.0650	.0830	.1450	.1540	.1320
.520	.0290	.0780	.1040	.1900	.1290
.650	-.2860	-.0230	.1180	.1400	-.1470
.775	-.2230	-.0330	.0790	.0990	-.1370
.900		.0000	.0540	.0730	-.1780

MACH (1) = 1.555 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4930	.4990	.3400	.3830	.2550
.050	.0830	-.0440	-.0910	-.0970	-.0940
.150	.1110	.0610	.0650	.0610	.0570
.300	.0390	.0060	.0170	.0150	.0390
.520	-.0260	-.0170	-.0110	.0600	.0350
.650	-.3200	-.1000	.0080	.0090	-.2230
.775	-.2370	-.1210	-.0240	-.0070	-.2090
.900		.0000	-.0490	-.0300	-.2360

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1375

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV28)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 4.000

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2750	.3700	.3670	.3860	.2380
.050	.2300	-.1030	-.2420	-.3060	-.3180
.150	.1570	.0270	-.1340	-.2320	-.2250
.300	.0680	-.0250	-.0450	-.0830	-.1090
.520	-.0160	-.0500	-.0270	.0370	.0460
.650	-.2870	-.1890	-.0570	-.0290	-.2240
.775	-.2710	-.1610	-.0880	-.0390	-.2010
.900		.0000	-.0990	-.0630	-.2220

MACH (1) = 1.555 BETAT (6) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4010	.3270	.3400	.3380	.1800
.050	.2460	-.1600	-.2580	-.3590	-.4000
.150	.1670	.0060	-.2420	-.3080	-.3240
.300	.0580	-.0520	-.1670	-.2070	-.2330
.520	-.0420	-.0900	-.0840	-.0540	-.0310
.650	-.2910	-.2120	-.1110	-.1140	-.2770
.775	-.2830	-.1800	-.1330	-.1090	-.2610
.900		.0000	-.1470	-.1320	-.2650

MACH (1) = 1.555 BETAT (7) = 8.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3700	.3320	.2890	.2340	.0740
.050	.1670	-.2610	-.3510	-.3890	-.4420
.150	.0810	-.0830	-.3420	-.3920	-.4220
.300	-.0170	-.1320	-.3140	-.3020	-.3240
.520	-.1070	-.1610	-.2100	-.2260	-.1780
.650	-.3350	-.2600	-.2200	-.2380	-.3540
.775	-.2930	-.2430	-.1800	-.2180	-.3440
.900		.0000	-.1750	-.2440	-.3540

MACH (2) = 2.000 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2120	.1000	.1350	.2110	.2460
.050	.1630	.3210	.3810	.4220	.4080
.150	.1500	.2610	.3140	.3540	.3550
.300	.0740	.1860	.2600	.2960	.2800
.520	.0660	.1570	.2080	.3250	.2850
.650	-.1520	.1220	.2330	.2740	.0390
.775	-.1070	.1270	.2150	.2640	.0430
.900		.0000	.1960	.2350	.0060

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2430	.2630	.2590	.3150	.3140
.050	.1680	.3040	.3470	.3760	.3690
.150	.1520	.2290	.2890	.3160	.3210
.300	.0950	.1520	.2310	.2570	.2460

AMES 97-201 IAS C20 01 1/2 LEFT VERTICAL

(REVISED)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE (1)

MACH (2) = 2.000 BETAT (2) = -0.260

Z/BV	.150	.316	.600	.840	.925
X/CV					
.000	.0140	.1230	.1740	.2650	.2120
.050	-.1570	.0840	.2020	.2550	.0190
.150	-.1090	.0770	.1800	.2380	.0140
.300		.0000	.1570	.2010	-.0230

MACH (2) = 2.000 BETAT (3) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1050	.3810	.3540	.3870	.3470
.050	.1550	.2580	.2630	.2790	.2860
.150	.1460	.1970	.2330	.2510	.2570
.300	.1010	.1300	.1840	.2040	.1950
.520	.0580	.1000	.1310	.1980	.1600
.650	-.1480	.0480	.1590	.2080	-.0210
.775	-.1180	.0400	.1480	.1860	-.0220
.900		.0000	.1250	.1610	-.0540

MACH (2) = 2.000 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7240	.5710	.4050	.4320	.3360
.050	-.0010	-.0120	-.0290	-.0320	-.0220
.150	.1350	.1090	.0400	.0310	.0340
.300	.0670	.0680	.1000	.1080	.1270
.520	.0170	.0290	.0500	.0940	.0990
.650	-.1840	-.0030	.0650	.0900	-.0970
.775	-.1700	-.0160	.0530	.0740	-.1100
.900		.0000	.0370	.0540	-.1240

MACH (2) = 2.000 BETAT (5) = 3.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0920	.4330	.4120	.4050	.2650
.050	.1490	-.0910	-.1470	-.1880	-.1880
.150	.1100	-.0100	-.1410	-.1400	-.1360
.300	.0490	-.0160	-.0790	-.1080	-.0870
.520	-.0120	-.0360	-.0260	-.0720	-.0540
.650	-.1720	-.1060	-.0360	-.0580	-.1960
.775	-.1860	-.1020	-.0500	-.0170	-.1810
.900		.0000	-.0650	-.0240	-.1630

MACH (2) = 2.000 BETAT (6) = 6.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2710	.3230	.3800	.3430	.2010
.050	.1370	-.1690	-.1940	-.2430	-.2450
.150	.0730	-.0450	-.1960	-.2080	-.2160
.300	.0090	-.0780	-.1770	-.1890	-.1680
.520	-.0300	-.0810	-.1170	-.1370	-.1360

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1377

AMES 97-707 IA9 O2A + S3 + T9 LEFT VERTICAL

(RBOV28)

SECTION (1) LEFT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1820	-.1400	-.1190	-.1360	-.2440
.775	-.1990	-.1270	-.1210	-.1120	-.2390
.900		.0000	-.1180	-.1030	-.2220

MACH (2) = 2.000 BETAT (7) = 8.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1750	.2120	.2970	.2550	.1250
.050	.0720	-.2070	-.2260	-.2460	-.2510
.150	.0020	-.2020	-.2370	-.2420	-.2550
.300	-.0420	-.1270	-.2320	-.2300	-.2360
.520	-.0830	-.1400	-.2050	-.1940	-.1650
.650	-.2020	-.1900	-.2130	-.1990	-.2500
.775	-.2130	-.1780	-.2300	-.1810	-.2520
.900		.0000	-.2270	-.1910	-.2450

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR01) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(1) = -6.400

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9360	.8210	.6890	.7560	.5920
.050	.3040	.0850	.0040	.0030	.0600
.150	.3270	.2550	.2490	.2810	.2560
.300	.2400	.1990	.2140	.2510	.2550
.520	.1760	.1350	.1590	.1790	.1800
.650	-.1780	-.2510	-.2260	-.2190	-.1790
.775	-.1960	-.2700	-.2320	-.2360	-.2310
.900		-.1930	-.2240	-.2360	-.2260

MACH (1) = 1.555 ALPHAT(2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8950	.7760	.6360	.6990	.5360
.050	.2830	.0630	-.0150	-.0170	.0360
.150	.2890	.2220	.2230	.2470	.2210
.300	.2050	.1700	.1800	.2160	.2180
.520	.1420	.1040	.1240	.1430	.1470
.650	-.2010	-.2650	-.2420	-.2300	-.1930
.775	-.2130	-.2830	-.2470	-.2450	-.2450
.900		-.2130	-.2380	-.2470	-.2440

MACH (1) = 1.555 ALPHAT(3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8520	.7430	.5840	.6550	.4900
.050	.2450	.0400	-.0320	-.0310	.0110
.150	.2600	.1940	.1910	.2080	.1920
.300	.1790	.1400	.1520	.1960	.1940
.520	.1150	.0770	.1020	.1200	.1240
.650	-.2210	-.2760	-.2540	-.2400	-.2050
.775	-.2280	-.2950	-.2540	-.2540	-.2520
.900		-.2320	-.2470	-.2550	-.2520

MACH (1) = 1.555 ALPHAT(4) = -2.190

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7940	.7020	.5380	.6120	.4500
.050	.2200	.0210	-.0470	-.0310	-.0020
.150	.2260	.1670	.1730	.1800	.1710
.300	.1470	.1100	.1280	.1630	.1620
.520	.0840	.0510	.0800	.0940	.1010
.650	-.2480	-.2910	-.2680	-.2510	-.2200
.775	-.2460	-.3050	-.2620	-.2630	-.2640
.900		-.2560	-.2570	-.2650	-.2660

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1379

AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBORD1)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(5) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7060	.6640	.5010	.5620	.4060
.050	.1980	.0050	-.0400	-.0460	-.0090
.150	.1940	.1550	.1450	.1590	.1460
.300	.1250	.0900	.1040	.1340	.1340
.520	.0680	.0330	.0570	.0710	.0750
.650	-.2550	-.2890	-.2820	-.2660	-.2400
.775	-.2450	-.3060	-.2690	-.2710	-.2730
.900		-.2660	-.2660	-.2740	-.2750

MACH (1) = 1.555 ALPHAT(6) = 1.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6570	.6280	.4650	.5230	.3690
.050	.1700	-.0070	-.0610	-.0520	-.0110
.150	.1640	.1240	.1260	.1340	.1430
.300	.1020	.0710	.0780	.1190	.1120
.520	.0430	.0150	.0410	.0550	.0550
.650	-.2650	-.2950	-.2880	-.2750	-.2530
.775	-.2460	-.3130	-.2750	-.2780	-.2830
.900		-.2740	-.2740	-.2810	-.2860

MACH (1) = 1.555 ALPHAT(7) = 4.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5910	.5910	.4290	.4780	.3300
.050	.1360	-.0290	-.0780	-.0620	-.0220
.150	.1350	.1000	.1010	.1170	.1020
.300	.0710	.0450	.0660	.0950	.0900
.520	.0230	.0000	.0270	.0320	.0350
.650	-.2800	-.3000	-.2960	-.2800	-.2670
.775	-.2450	-.3200	-.2840	-.2870	-.2930
.900		-.2880	-.2850	-.2900	-.2940

MACH (1) = 1.555 ALPHAT(8) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4850	.5510	.3980	.4350	.2920
.050	.1130	-.0530	-.0840	-.0720	-.0370
.150	.1070	.0700	.0790	.0780	.0780
.300	.0510	.0210	.0430	.0720	.0650
.520	.0020	-.0180	.0060	.0140	.0160
.650	-.2810	-.3150	-.3020	-.2880	-.2780
.775	-.2440	-.3320	-.2940	-.2930	-.3010
.900		-.2770	-.2950	-.2960	-.3010

MACH (1) = 1.555 ALPHAT(9) = 8.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5140	.4850	.3650	.3910	.2580
.050	.0640	-.0290	-.0840	-.0780	-.0540
.150	.0960	.0560	.0630	.0550	.0440
.300	.0370	.0110	.0240	.0560	.0450

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR01)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(9) = 8.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0050	-.0250	-.0060	.0010	-.0010
.650	-.3070	-.3020	-.3100	-.2890	-.2880
.775	-.2450	-.3170	-.3000	-.2990	-.3110
.900		-.2990	-.3030	-.3050	-.3100

MACH (2) = 2.000 ALPHAT(1) = -8.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9940	.9510	.7700	.8420	.6840
.050	.3330	.2090	.1260	.1050	.1200
.150	.4000	.3390	.3270	.2420	.2260
.300	.2940	.2720	.2950	.3340	.3530
.520	.2650	.1970	.2150	.2520	.2610
.650	-.0470	-.0920	-.0780	-.0440	-.0270
.775	-.0440	-.1160	-.0930	-.0670	-.0690
.900		-.0890	-.0800	-.0750	-.0710

MACH (2) = 2.000 ALPHAT(2) = -6.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9340	.8980	.7180	.7870	.6360
.050	.2840	.1860	.1100	.0910	.1070
.150	.3600	.3060	.2880	.2170	.1990
.300	.2560	.2370	.2630	.3040	.3230
.520	.2290	.1640	.1890	.2220	.2320
.650	-.0680	-.1060	-.0920	-.0580	-.0420
.775	-.0640	-.1310	-.1070	-.0770	-.0840
.900		-.1130	-.0970	-.0880	-.0870

MACH (2) = 2.000 ALPHAT(3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8680	.8410	.6590	.7250	.5840
.050	.2430	.1630	.0940	.0750	.0840
.150	.3190	.2770	.2520	.1850	.1780
.300	.2230	.2060	.2330	.2730	.2900
.520	.1930	.1340	.1630	.1940	.2020
.650	-.0820	-.1170	-.1090	-.0720	-.0570
.775	-.0810	-.1410	-.1200	-.0890	-.1000
.900		-.1260	-.1120	-.1020	-.1040

MACH (2) = 2.000 ALPHAT(4) = -2.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8210	.7960	.6140	.6700	.5420
.050	.2090	.1390	.0720	.0480	.0590
.150	.2840	.2480	.2120	.1600	.1520
.300	.1930	.1740	.2040	.2450	.2540
.520	.1610	.1050	.1370	.1670	.1730

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1381

AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBOR01)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT (4) = -2.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.0970	-.1320	-.1270	-.0890	-.0740
.775	-.1000	-.1560	-.1330	-.1030	-.1130
.900		-.1410	-.1290	-.1200	-.1170

MACH (2) = 2.000 ALPHAT (5) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7770	.7450	.5700	.6160	.4970
.050	.1820	.1190	.0540	.0260	.0440
.150	.2530	.2210	.1890	.1300	.1280
.300	.1660	.1500	.1760	.2160	.2210
.520	.1330	.0830	.1100	.1410	.1460
.650	-.1110	-.1410	-.1460	-.1070	-.0930
.775	-.1140	-.1650	-.1510	-.1200	-.1250
.900		-.1560	-.1450	-.1370	-.1290

MACH (2) = 2.000 ALPHAT (6) = 1.890

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7390	.6920	.5280	.5720	.4540
.050	.1410	.0940	.0390	.0150	.0300
.150	.2210	.2020	.1560	.1080	.1060
.300	.1410	.1290	.1540	.1870	.1920
.520	.1090	.0620	.0910	.1190	.1250
.650	-.1280	-.1510	-.1590	-.1160	-.1080
.775	-.1280	-.1720	-.1600	-.1310	-.1310
.900		-.1730	-.1560	-.1490	-.1330

MACH (2) = 2.000 ALPHAT (7) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7110	.6500	.4880	.5280	.4220
.050	.0890	.0650	.0220	.0060	.0210
.150	.1930	.1830	.1290	.0970	.0940
.300	.1170	.1130	.1440	.1720	.1740
.520	.0900	.0470	.0780	.1090	.1130
.650	-.1500	-.1570	-.1590	-.1170	-.1110
.775	-.1350	-.1740	-.1590	-.1310	-.1450
.900		-.1830	-.1540	-.1500	-.1440

MACH (2) = 2.000 ALPHAT (8) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6990	.6110	.4380	.4790	.3770
.050	.0370	.0210	-.0060	-.0120	.0020
.150	.1700	.1520	.0850	.0680	.0690
.300	.0850	.0910	.1260	.1560	.1550
.520	.0650	.0310	.0630	.0940	.0980
.650	-.1610	-.1650	-.1590	-.1200	-.1190

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1382

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBORD1)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(8) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.775	-.1450	-.1730	-.1600	-.1340	-.1520
.900		-.1810	-.1560	-.1510	-.1540

MACH (2) = 2.000 ALPHAT(9) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7080	.5730	.4020	.4350	.3400
.050	-.0170	-.0250	-.0270	-.0220	-.0070
.150	.1530	.0810	.0520	.0500	.0540
.300	.0560	.0730	.1110	.1380	.1260
.520	.0490	.0190	.0520	.0800	.0830
.650	-.1650	-.1700	-.1620	-.1250	-.1270
.775	-.1510	-.1760	-.1620	-.1400	-.1560
.900		-.1860	-.1610	-.1560	-.1570

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1383

AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

(RBOR02) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.140

Z/BV	.158	.316	.600	.840	.925	
X/CV	.000	.3910	.2880	.1850	.2590	.2410
.050	.2180	-.2620	-.3220	-.4110	-.4450	
.150	.1210	-.0450	-.2090	-.3690	-.3760	
.300	.0290	-.0910	-.2050	-.2980	-.3020	
.520	-.0410	-.1430	-.1710	-.1800	-.1840	
.650	-.3100	-.3620	-.3480	-.4020	-.4020	
.775	-.3030	-.3200	-.3710	-.3810	-.3850	
.900		-.3070	-.3910	-.3720	-.3730	

MACH (1) = 1.555 BETAT (2) = -5.100

Z/BV	.158	.316	.600	.840	.925	
X/CV	.000	.3640	.3510	.2890	.3610	.2970
.050	.2620	-.1900	-.2810	-.3490	-.3660	
.150	.1630	.0090	-.1490	-.2750	-.2710	
.300	.0670	-.0250	-.0820	-.1490	-.2070	
.520	-.0050	-.0890	-.0660	-.0610	-.0540	
.650	-.2710	-.3310	-.3340	-.3380	-.2670	
.775	-.2750	-.2710	-.3430	-.3390	-.3200	
.900		-.2790	-.3630	-.3380	-.3180	

MACH (1) = 1.555 BETAT (3) = -3.050

Z/BV	.158	.316	.600	.840	.925	
X/CV	.000	.1920	.3480	.3130	.3680	.2900
.050	.2050	-.1190	-.2750	-.3270	-.3250	
.150	.1240	.0020	-.1620	-.2380	-.2200	
.300	.0440	-.0410	-.0670	-.0520	-.1240	
.520	-.0300	-.1040	-.0880	-.0090	.0290	
.650	-.3190	-.3330	-.3620	-.3000	-.2540	
.775	-.2790	-.3180	-.3270	-.3070	-.2930	
.900		-.2940	-.3260	-.3030	-.2940	

MACH (1) = 1.555 BETAT (4) = 5.110

Z/BV	.158	.316	.600	.840	.925	
X/CV	.000	.4290	.3560	.3570	.3710	.2070
.050	.1760	.1960	.2050	.2560	.2640	
.150	.1220	.1510	.1850	.2410	.2200	
.300	.0580	.0920	.1750	.2140	.1760	
.520	.0620	.0920	.1290	.1260	.0960	
.650	-.2840	-.2450	-.2750	-.2480	-.2500	
.775	-.2110	-.2510	-.2500	-.2510	-.2800	
.900		-.2350	-.2430	-.2570	-.2710	

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR02)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.140		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3450	.3820	.3090	.2830	.1250
		.050	.1400	.2510	.2780	.3450	.3460
		.150	.1120	.1890	.2420	.3020	.2660
		.300	.0560	.1230	.2270	.2570	.2160
		.520	.0700	.1240	.1620	.1480	.0970
		.650	-.2750	-.2370	-.2470	-.2460	-.2430
		.775	-.2060	-.2460	-.2110	-.2370	-.2690
		.900		-.2350	-.2080	-.2340	-.2500

MACH (1) = 1.555 BETAT (6) = 9.190		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2510	.2990	.2680	.1710	.0100
		.050	.1650	.2960	.3550	.4300	.4050
		.150	.1160	.2090	.3130	.3620	.3230
		.300	.0560	.1470	.2880	.3090	.2560
		.520	.1030	.1560	.2020	.1980	.1120
		.650	-.2560	-.2190	-.2380	-.2300	-.2330
		.775	-.1910	-.2160	-.1920	-.2030	-.2410
		.900		-.1850	-.1820	-.1990	-.2130

MACH (2) = 2.000 BETAT (1) = -8.320		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1960	.0910	.1330	.2030	.2500
		.050	.0580	-.2030	-.2360	-.2700	-.2780
		.150	.0130	-.2070	-.2460	-.2400	-.2480
		.300	-.0420	-.1090	-.1950	-.2290	-.2170
		.520	-.0450	-.1330	-.2000	-.2100	-.1750
		.650	-.1760	-.2350	-.2630	-.2840	-.2660
		.775	-.1980	-.2090	-.2700	-.2850	-.2780
		.900		-.2070	-.2730	-.2720	-.2810

MACH (2) = 2.000 BETAT (2) = -6.270		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2780	.2560	.2510	.3170	.3130
		.050	.1690	-.1540	-.2020	-.2420	-.2490
		.150	.1100	-.0390	-.2130	-.2040	-.1990
		.300	.0120	-.0810	-.1470	-.1720	-.1640
		.520	.0200	-.0900	-.1140	-.1480	-.1270
		.650	-.1580	-.2060	-.2160	-.2540	-.2390
		.775	-.1840	-.1840	-.2230	-.2630	-.2520
		.900		-.1880	-.2350	-.2520	-.2520

MACH (2) = 2.000 BETAT (3) = -4.210		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.0740	.3850	.3440	.3810	.3370
		.050	.1820	-.0960	-.1590	-.1830	-.1760
		.150	.1320	-.0100	-.1340	-.1300	-.1260
		.300	.0550	-.0180	-.0590	-.0910	-.0850

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1385

AMES 97-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

(RBOR02)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0340	-.0470	-.0380	-.0640	-.0490
.650	-.1500	-.1830	-.2100	-.2050	-.2020
.775	-.1700	-.1650	-.2100	-.1880	-.2160
.900		-.1740	-.2180	-.1940	-.2070

MACH (2) = 2.000 BETAT (4) = 3.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0980	.4260	.4000	.3860	.2550
.050	.1490	.2700	.2740	.3060	.3090
.150	.1310	.1930	.2340	.2700	.2710
.300	.0740	.1240	.1830	.2280	.2270
.520	.0800	.0750	.1220	.1530	.1370
.650	-.1450	-.1350	-.1200	-.0760	-.0710
.775	-.1170	-.1410	-.1080	-.0720	-.1200
.900		-.1350	-.1090	-.0970	-.1090

MACH (2) = 2.000 BETAT (5) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2580	.3260	.3780	.3280	.1920
.050	.1400	.2970	.3580	.3870	.3760
.150	.1200	.2060	.2890	.3280	.3210
.300	.0600	.1400	.2240	.2790	.2730
.520	.0870	.0930	.1610	.1980	.1750
.650	-.1470	-.1180	-.1070	-.0530	-.0510
.775	-.1030	-.1210	-.0960	-.0410	-.0890
.900		-.1220	-.0940	-.0780	-.0750

MACH (2) = 2.000 BETAT (6) = 8.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1550	.2090	.2890	.2460	.1140
.050	.1120	.3360	.3900	.4440	.4280
.150	.0930	.2530	.3230	.3790	.3630
.300	.0300	.1780	.2640	.3250	.3080
.520	.0700	.1280	.2050	.2460	.2000
.650	-.1540	-.0970	-.0910	-.0440	-.0470
.775	-.0910	-.1010	-.0720	-.0210	-.0860
.900		-.1100	-.0520	-.0550	-.0660

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR03) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3570	.2730	.2410	.3110	.2900
.050	.1990	-.2560	-.3180	-.4160	-.4290
.150	.1120	-.0370	-.2190	-.3480	-.3570
.300	.0320	-.0610	-.1760	-.3010	-.2850
.520	-.0410	-.1300	-.1650	-.1750	-.2020
.650	-.2810	-.3560	-.3420	-.3850	-.3900
.775	-.2980	-.2920	-.3610	-.3770	-.3940
.900		-.2960	-.3350	-.3640	-.3630

MACH (1) = 1.555 BETAT (2) = -5.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3590	.3320	.3330	.4220	.3430
.050	.1570	-.1380	-.2890	-.3440	-.3470
.150	.1170	.0040	-.1660	-.2520	-.2550
.300	.0610	-.0220	-.0570	-.1760	-.1810
.520	.0000	-.1000	-.0670	-.0470	-.0350
.650	-.2020	-.3110	-.3430	-.3270	-.2750
.775	-.2640	-.2560	-.3430	-.3340	-.3100
.900		-.2650	-.3620	-.3290	-.3050

MACH (1) = 1.555 BETAT (3) = -3.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2180	.4720	.3550	.4130	.3240
.050	.1900	-.1730	-.2740	-.3170	-.3170
.150	.1120	.0100	-.1900	-.2220	-.2190
.300	.0340	-.0260	-.0440	-.1300	-.1610
.520	-.0360	-.1010	-.0820	-.0570	.0170
.650	-.2710	-.3630	-.3540	-.3190	-.2290
.775	-.2660	-.2920	-.3490	-.3110	-.2840
.900		-.2740	-.3510	-.2950	-.2790

MACH (1) = 1.555 BETAT (4) = 5.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2070	.3570	.4040	.4120	.2470
.050	.1750	.1880	.2270	.2890	.2950
.150	.1250	.1520	.2120	.2640	.2480
.300	.0710	.1240	.1960	.2380	.2030
.520	.0680	.0790	.1390	.1460	.1200
.650	-.2300	-.2600	-.2630	-.2390	-.2390
.775	-.2240	-.2480	-.2380	-.2350	-.2710
.900		-.1920	-.2370	-.2460	-.2610

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1387

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR03)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.110	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3230	.3670	.3610	.3330	.1710
	.050	.1740	.2620	.3090	.3770	.3730
	.150	.1410	.2020	.2710	.3280	.2970
	.300	.0880	.1540	.2520	.2770	.2390
	.520	.1000	.1410	.1780	.1740	.1250
	.650	-.2270	-.2270	-.2590	-.2320	-.2310
	.775	-.2060	-.2310	-.2160	-.2260	-.2600
	.900		-.1720	-.2090	-.2290	-.2450

MACH (1) = 1.555 BETAT (6) = 9.140	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2300	.3260	.2970	.2150	.0520
	.050	.1980	.3370	.3880	.4660	.4390
	.150	.1490	.2450	.3480	.3930	.3510
	.300	.0960	.1900	.3160	.3380	.2800
	.520	.1420	.1840	.2250	.2110	.1270
	.650	-.2120	-.2090	-.2270	-.2250	-.2250
	.775	-.1870	-.2070	-.1800	-.1970	-.2400
	.900		-.1450	-.1690	-.1890	-.2070

MACH (2) = 2.000 BETAT (1) = -8.300	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1890	.1690	.1860	.2650	.3020
	.050	.1110	-.1880	-.2280	-.2730	-.2760
	.150	.0200	-.2190	-.2400	-.2420	-.2440
	.300	-.0350	-.1060	-.1820	-.2150	-.2090
	.520	-.0630	-.1300	-.1830	-.1940	-.1750
	.650	-.1860	-.2390	-.2580	-.2880	-.2610
	.775	-.2040	-.2150	-.2660	-.3000	-.2770
	.900		-.2090	-.2660	-.2780	-.2820

MACH (2) = 2.000 BETAT (2) = -6.250	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2560	.3100	.2950	.3570	.3470
	.050	.0880	-.1600	-.2030	-.2300	-.2280
	.150	.0620	-.1750	-.1970	-.1900	-.1830
	.300	.0020	-.0600	-.1390	-.1590	-.1460
	.520	.0040	-.0780	-.1050	-.1280	-.1040
	.650	-.1560	-.2010	-.2210	-.2470	-.2270
	.775	-.1830	-.1780	-.2230	-.2570	-.2480
	.900		-.1890	-.2290	-.2500	-.2460

MACH (2) = 2.000 BETAT (3) = -4.200	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1330	.4550	.3930	.4220	.3840
	.050	.1700	-.1050	-.1730	-.1730	-.1650
	.150	.1230	-.0230	-.1180	-.1170	-.1140
	.300	.0490	-.0010	-.0610	-.0780	-.0740

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR03)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0300	-.0400	-.0250	-.0530	-.0350
.650	-.1400	-.1860	-.2020	-.2020	-.1940
.775	-.1660	-.1630	-.2090	-.1870	-.2040
.900		-.1790	-.2110	-.1890	-.1960

MACH (2) = 2.000 BETAT (4) = 3.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1230	.5070	.4460	.4270	.2950
.050	.1810	.2900	.3000	.3210	.3230
.150	.1690	.2150	.2620	.2840	.2860
.300	.1160	.1510	.2040	.2450	.2430
.520	.1510	.0900	.1290	.1710	.1450
.650	-.1160	-.1390	-.1230	-.0720	-.0700
.775	-.1080	-.1530	-.1130	-.0720	-.1180
.900		-.1140	-.1060	-.1000	-.1080

MACH (2) = 2.000 BETAT (5) = 6.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1590	.4010	.4150	.3770	.2270
.050	.3010	.3640	.3930	.4160	.4040
.150	.2310	.2490	.3220	.3570	.3420
.300	.1150	.1600	.2520	.3020	.2960
.520	.1270	.1140	.1760	.2140	.1940
.650	-.1130	-.1050	-.0910	-.0420	-.0400
.775	-.0770	-.1090	-.0780	-.0300	-.0870
.900		-.1090	-.0770	-.0640	-.0740

MACH (2) = 2.000 BETAT (6) = 8.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1430	.2940	.3560	.3160	.1710
.050	.1700	.3590	.4280	.4850	.4650
.150	.1470	.2590	.3520	.4160	.3950
.300	.0720	.1760	.2870	.3540	.3380
.520	.1200	.1420	.2250	.2710	.2230
.650	-.1280	-.0920	-.0720	-.0240	-.0290
.775	-.0720	-.0900	-.0590	-.0060	-.0680
.900		-.0810	-.0590	-.0460	-.0480

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1389

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBCRU4) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.090

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3760	.3340	.3040	.3780	.3400
.050	.1230	-.2440	-.3150	-.4030	-.4140
.150	.0850	-.1600	-.2380	-.3280	-.3360
.300	.0240	-.0320	-.1550	-.2810	-.2630
.520	-.0330	-.1110	-.1430	-.2150	-.1820
.650	-.2390	-.3520	-.3440	-.3700	-.3830
.775	-.2830	-.2770	-.3570	-.3660	-.3990
.900		-.2790	-.3750	-.3560	-.3650

MACH (1) = 1.555 BETAT (2) = -5.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2680	.4360	.3750	.4690	.3800
.050	.2130	-.1750	-.2830	-.3330	-.3330
.150	.1280	.0370	-.1720	-.2390	-.2370
.300	.0530	.0040	-.0350	-.1640	-.1630
.520	-.0170	-.0910	-.0480	-.0230	-.0160
.650	-.2030	-.3130	-.3310	-.3110	-.2770
.775	-.2650	-.2570	-.3310	-.3270	-.2990
.900		-.2600	-.3430	-.3160	-.2930

MACH (1) = 1.555 BETAT (3) = -3.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2660	.5380	.3920	.4600	.3610
.050	.1920	-.1750	-.2710	-.3110	-.3060
.150	.1190	.0080	-.1940	-.2100	-.2090
.300	.0430	-.0110	-.0240	-.1370	-.1440
.520	-.0280	-.0830	-.0680	-.0400	-.0120
.650	-.2520	-.3770	-.3370	-.3190	-.2670
.775	-.2650	-.3000	-.3430	-.3330	-.3090
.900		-.2740	-.3420	-.3190	-.2830

MACH (1) = 1.555 BETAT (4) = 5.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1570	.5120	.4470	.4460	.2830
.050	.1370	.2480	.2550	.3040	.3140
.150	.1270	.1930	.2380	.2930	.2710
.300	.0910	.1470	.2240	.2640	.2260
.520	.0750	.1050	.1610	.1710	.1430
.650	-.1320	-.2600	-.2490	-.2280	-.2270
.775	-.2140	-.2550	-.2190	-.2290	-.2620
.900		-.1830	-.2220	-.2350	-.2510

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR04)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3390	.4210	.4090	.3730	.2110
.050	.2300	.2860	.3420	.4190	.4060
.150	.1770	.2200	.3120	.3670	.3330
.300	.1270	.1770	.2900	.3070	.2650
.520	.1310	.1560	.2060	.2020	.1560
.650	-.1810	-.2310	-.2420	-.2200	-.2180
.775	-.1960	-.2210	-.1980	-.2110	-.2460
.900		-.1570	-.2000	-.2160	-.2280

MACH (1) = 1.555 BETAT (6) = 9.100

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2000	.3170	.3410	.2520	.0920
.050	.2740	.3690	.4250	.5020	.4730
.150	.2260	.2690	.3890	.4260	.3820
.300	.1550	.2240	.3470	.3670	.3050
.520	.2050	.2150	.2440	.2310	.1500
.650	-.1640	-.2000	-.2280	-.2130	-.2140
.775	-.1670	-.1830	-.1700	-.1930	-.2300
.900		-.1270	-.1540	-.1900	-.2020

MACH (2) = 2.000 BETAT (1) = -8.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1470	.2480	.2520	.3320	.3460
.050	.0580	-.1980	-.2400	-.2590	-.2670
.150	.0210	-.2220	-.2330	-.2300	-.2290
.300	-.0280	-.1180	-.1910	-.2080	-.1940
.520	-.0510	-.1220	-.1540	-.1760	-.1580
.650	-.2000	-.2410	-.2550	-.2840	-.2570
.775	-.2050	-.2220	-.2640	-.2970	-.2740
.900		-.2140	-.2650	-.2850	-.2810

MACH (2) = 2.000 BETAT (2) = -6.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1240	.3770	.3390	.3930	.3930
.050	.0760	-.1540	-.2040	-.2230	-.2210
.150	.0790	-.1680	-.1900	-.1810	-.1730
.300	-.0170	-.0860	-.1390	-.1470	-.1350
.520	-.0260	-.0700	-.0950	-.1140	-.0890
.650	-.1560	-.2200	-.2280	-.2480	-.2240
.775	-.1770	-.1830	-.2330	-.2550	-.2420
.900		-.1910	-.2290	-.2460	-.2410

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2040	.5130	.4250	.4680	.4280
.050	.1520	-.1130	-.1750	-.1590	-.1510
.150	.1220	-.0620	-.1050	-.1030	-.0980
.300	.0530	.0180	-.0560	-.0620	-.0590

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1391

AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBOR04)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0270	-.0300	-.0080	-.0400	-.0170
.650	-.1290	-.1990	-.1930	-.1950	-.1870
.775	-.1610	-.1620	-.2060	-.1940	-.2000
.900		-.1770	-.2040	-.1860	-.1910

MACH (2) = 2.000 BETAT (4) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1730	.5740	.4890	.4740	.3390
.050	.2060	.3120	.3270	.3450	.3510
.150	.1900	.2410	.2910	.3130	.3100
.300	.1390	.1770	.2330	.2670	.2640
.520	.1150	.1130	.1560	.1850	.1690
.650	-.0760	-.1260	-.1090	-.0550	-.0550
.775	-.1010	-.1490	-.0980	-.0550	-.1020
.900		-.1100	-.0960	-.0890	-.0950

MACH (2) = 2.000 BETAT (5) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1010	.4680	.4700	.4230	.2800
.050	.3500	.4130	.4360	.4420	.4290
.150	.2710	.2940	.3610	.3850	.3670
.300	.1620	.2010	.2890	.3300	.3140
.520	.1580	.1340	.1990	.2370	.2050
.650	-.1030	-.0980	-.0910	-.0330	-.0350
.775	-.0630	-.1030	-.0700	-.0270	-.0780
.900		-.0940	-.0620	-.0590	-.0660

MACH (2) = 2.000 BETAT (6) = 8.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1280	.3830	.4350	.3890	.2190
.050	.2780	.4250	.4700	.5170	.4970
.150	.2230	.2920	.3860	.4450	.4210
.300	.1190	.2000	.3110	.3840	.3590
.520	.1630	.1760	.2550	.2930	.2490
.650	-.1050	-.0790	-.0560	-.0090	-.0140
.775	-.0580	-.0860	-.0410	.0020	-.0540
.900		-.0850	-.0420	-.0360	-.0330

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR05) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2710	.3770	.3510	.4290	.3810
.050	.0950	-.2370	-.3270	-.3940	-.4040
.150	.0930	-.1520	-.2620	-.3160	-.3260
.300	.0260	-.0320	-.1430	-.2650	-.2520
.520	-.0370	-.1070	-.1120	-.2060	-.1720
.650	-.2310	-.3610	-.3470	-.3770	-.3790
.775	-.2790	-.2740	-.3560	-.3620	-.4090
.900		-.2700	-.3670	-.3490	-.3820

MACH (1) = 1.555 BETAT (2) = -5.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3410	.4630	.4100	.5090	.4230
.050	.2200	-.1700	-.2840	-.3280	-.3260
.150	.1400	-.0160	-.1840	-.2330	-.2310
.300	.0530	.0310	-.0340	-.1610	-.1550
.520	-.0110	-.0760	-.0410	-.0130	-.0620
.650	-.1970	-.3280	-.3240	-.3010	-.2920
.775	-.2700	-.2620	-.3270	-.3210	-.2880
.900		-.2550	-.3320	-.3080	-.2730

MACH (1) = 1.555 BETAT (3) = -3.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3230	.5890	.4290	.5050	.4000
.050	.1970	-.1730	-.2670	-.2990	-.2940
.150	.1250	.0060	-.1910	-.1940	-.1960
.300	.0600	.0080	-.0050	-.1280	-.1270
.520	-.0020	-.0590	-.0480	-.0170	-.0020
.650	-.2440	-.3580	-.3210	-.3050	-.2710
.775	-.2600	-.3110	-.3320	-.3240	-.2990
.900		-.2770	-.3280	-.3120	-.2890

MACH (1) = 1.555 BETAT (4) = 5.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2970	.5690	.4880	.4830	.3240
.050	.2080	.3030	.2910	.3380	.3540
.150	.1670	.2370	.2800	.3290	.3110
.300	.1240	.1780	.2540	.2940	.2550
.520	.1160	.1370	.1880	.1960	.1650
.650	-.1930	-.2390	-.2380	-.2040	-.2120
.775	-.2030	-.2500	-.2060	-.2220	-.2480
.900		-.1750	-.2110	-.2260	-.2320

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1393

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR05)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2200	.4750	.4580	.4210	.2480
.050	.2730	.3240	.3740	.4590	.4430
.150	.2140	.2560	.3520	.4070	.3630
.300	.1600	.2160	.3210	.3440	.2910
.520	.1710	.1790	.2290	.2230	.1740
.650	-.1510	-.2200	-.2300	-.1950	-.2070
.775	-.1860	-.2100	-.1880	-.2080	-.2370
.900		-.1450	-.1900	-.2110	-.2120

MACH (1) = 1.555 BETAT (6) = 9.090

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1310	.3560	.3910	.3030	.1380
.050	.3250	.3810	.4770	.5410	.5090
.150	.2460	.2790	.4250	.4550	.4120
.300	.1810	.2580	.3690	.3970	.3330
.520	.2230	.2160	.2690	.2590	.1810
.650	-.0980	-.2050	-.2160	-.1900	-.2020
.775	-.1530	-.1320	-.1650	-.1890	-.2230
.900		-.1080	-.1590	-.1820	-.1850

MACH (2) = 2.000 BETAT (1) = -8.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0840	.3010	.3020	.3710	.3940
.050	.0260	-.1630	-.2210	-.2500	-.2510
.150	.0500	-.1800	-.2190	-.2130	-.2090
.300	-.0200	-.1930	-.1760	-.1870	-.1690
.520	-.0550	-.1170	-.1420	-.1540	-.1330
.650	-.2030	-.2370	-.2590	-.2740	-.2420
.775	-.2020	-.2190	-.2640	-.2860	-.2670
.900		-.2040	-.2550	-.2750	-.2710

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1380	.4550	.3840	.4580	.4520
.050	.0940	-.1390	-.2130	-.2050	-.2020
.150	.0960	-.1440	-.1720	-.1610	-.1500
.300	-.0020	-.1010	-.1350	-.1290	-.1120
.520	-.0320	-.0480	-.0670	-.0920	-.0670
.650	-.1510	-.2210	-.2170	-.2410	-.2120
.775	-.1680	-.1860	-.2290	-.2470	-.2320
.900		-.1850	-.2200	-.2370	-.2290

MACH (2) = 2.000 BETAT (3) = -4.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2380	.5730	.4780	.5260	.4790
.050	.1910	-.0950	-.1590	-.1420	-.1300
.150	.1230	-.0370	-.0840	-.0840	-.0770
.300	.0610	.0520	-.0370	-.0430	-.0380

AMES 97-797 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR05)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0320	-.0100	.0120	-.0240	.0040
.650	-.1210	-.2060	-.1800	-.1860	-.1780
.775	-.1550	-.1670	-.1970	-.1910	-.1940
.900		-.1740	-.1960	-.1770	-.1830

MACH (2) = 2.000 BETAT (4) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2280	.6340	.5370	.5340	.3910
.050	.2630	.3600	.3570	.3660	.3700
.150	.2300	.2780	.3180	.3380	.3340
.300	.1640	.2030	.2580	.2900	.2850
.520	.1490	.1330	.1800	.2030	.1810
.650	-.1040	-.1160	-.0990	-.0500	-.0470
.775	-.0900	-.1340	-.0920	-.0490	-.0950
.900		-.1320	-.0900	-.0790	-.0880

MACH (2) = 2.000 BETAT (5) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0990	.5330	.5100	.4760	.3330
.050	.3720	.4420	.4600	.4650	.4520
.150	.2920	.3240	.3890	.4070	.3930
.300	.1870	.2310	.3120	.3530	.3400
.520	.1880	.1650	.2230	.2500	.2240
.650	-.0920	-.0870	-.0800	-.0190	-.0240
.775	-.0570	-.0990	-.0590	-.0190	-.0750
.900		-.0900	-.0560	-.0520	-.0590

MACH (2) = 2.000 BETAT (6) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0070	.4410	.4790	.4120	.2610
.050	.4010	.4810	.5150	.5470	.5160
.150	.2980	.3500	.4290	.4710	.4420
.300	.1760	.2460	.3480	.4110	.3830
.520	.1970	.1850	.2640	.3060	.2640
.650	-.0790	-.0620	-.0430	.0030	.0010
.775	-.0340	-.0690	-.0200	.0140	-.0390
.900		-.0660	-.0210	-.0230	-.0190

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1395

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR06) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3840	.4240	.3960	.4820	.4190
.050	.0590	-.2400	-.3190	-.3850	-.3930
.150	.0690	-.0700	-.2590	-.3020	-.3090
.300	.0310	-.0120	-.1220	-.2450	-.2290
.520	-.0430	-.1000	-.0810	-.1860	-.1520
.650	-.2150	-.3670	-.3360	-.3750	-.3680
.775	-.2810	-.2840	-.3430	-.3460	-.3960
.900		-.2550	-.3520	-.3360	-.3720

MACH (1) = 1.555 BETAT (2) = -5.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3270	.4990	.4330	.5490	.4580
.050	.1680	-.1830	-.2840	-.3250	-.3180
.150	.1090	-.1530	-.1900	-.2230	-.2200
.300	.0430	.0320	-.0340	-.1530	-.1370
.520	-.0170	-.0460	-.0260	-.0290	-.0680
.650	-.1880	-.3430	-.3120	-.2890	-.2990
.775	-.2640	-.2620	-.3170	-.3010	-.2870
.900		-.2380	-.3170	-.2980	-.2620

MACH (1) = 1.555 BETAT (3) = -3.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3930	.6270	.4690	.5580	.4420
.050	.2190	-.1690	-.2640	-.2850	-.2760
.150	.1470	.0180	-.1770	-.1770	-.1790
.300	.0740	.0280	.0150	-.1120	-.1070
.520	.0170	-.0400	-.0280	.0030	.0020
.650	-.2280	-.3420	-.3150	-.2900	-.2660
.775	-.2570	-.3170	-.3260	-.3110	-.2840
.900		-.2740	-.3180	-.3030	-.2700

MACH (1) = 1.555 BETAT (4) = 5.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3070	.5970	.5240	.5220	.3460
.050	.3120	.3490	.3420	.3820	.4010
.150	.2420	.2730	.3200	.3650	.3440
.300	.1780	.2120	.2970	.3310	.2910
.520	.1750	.1690	.2200	.2250	.1860
.650	-.1810	-.2250	-.2260	-.1950	-.1990
.775	-.1900	-.2300	-.1920	-.2060	-.2350
.900		-.1570	-.1960	-.2140	-.2240

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR06)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2710	.5230	.5020	.4640	.2810
.050	.3100	.3830	.4310	.4990	.4790
.150	.2450	.2980	.3890	.4360	.3920
.300	.1950	.2590	.3490	.3800	.3200
.520	.2020	.2100	.2510	.2480	.1990
.650	-.1260	-.2120	-.2180	-.1880	-.1980
.775	-.1680	-.1980	-.1730	-.1930	-.2300
.900		-.1270	-.1740	-.2010	-.2060

MACH (1) = 1.555 BETAT (6) = 9.090

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0610	.4000	.4250	.3410	.1710
.050	.3960	.4240	.5320	.5800	.5420
.150	.2760	.3130	.4730	.4970	.4450
.300	.2170	.3210	.4080	.4290	.3560
.520	.2650	.2570	.2990	.2790	.2030
.650	-.1240	-.1880	-.2050	-.1790	-.1920
.775	-.1370	-.1590	-.1510	-.1750	-.2090
.900		-.0970	-.1440	-.1730	-.1740

MACH (2) = 2.000 BETAT (1) = -8.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1160	.3570	.3540	.4240	.4540
.050	.0150	-.1560	-.2180	-.2320	-.2340
.150	.0680	-.1690	-.2030	-.1900	-.1860
.300	-.0210	-.1750	-.1650	-.1600	-.1450
.520	-.0600	-.1080	-.1180	-.1270	-.1070
.650	-.1870	-.2320	-.2510	-.2600	-.2250
.775	-.1940	-.2080	-.2570	-.2700	-.2590
.900		-.1930	-.2450	-.2610	-.2610

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2680	.5170	.4280	.5240	.5000
.050	.1010	-.1310	-.2120	-.1860	-.1800
.150	.0970	-.1260	-.1540	-.1360	-.1250
.300	.0290	-.0850	-.1110	-.1040	-.0860
.520	-.0240	-.0210	-.0400	-.0710	-.0400
.650	-.1420	-.2140	-.2040	-.2310	-.1970
.775	-.1650	-.1910	-.2170	-.2360	-.2260
.900		-.1840	-.2110	-.2250	-.2190

MACH (2) = 2.000 BETAT (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7590	.7370	.5680	.6120	.4970
.050	.1650	.1420	.0750	.0550	.0770
.150	.2490	.2260	.2150	.1640	.1560
.300	.1640	.1550	.1890	.2320	.2320

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1397

AMES 97-707 IA9 ORA + S3 + T9 RIGHT VERTICAL

(RBOR06)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1400	.0870	.1210	.1590	.1570
.650	-.1160	-.1390	-.1330	-.0920	-.0840
.775	-.1110	-.1590	-.1360	-.1040	-.1240
.900		-.1590	-.1290	-.1240	-.1290

MACH (2) = 2.000 BETAT (4) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2380	.6650	.5760	.5820	.4320
.050	.3160	.4060	.4020	.3970	.4050
.150	.2680	.3110	.3570	.3710	.3650
.300	.1950	.2330	.2890	.3230	.3130
.520	.1830	.1580	.2010	.2340	.2060
.650	-.0950	-.1000	-.0890	-.0370	-.0370
.775	-.0750	-.1150	-.0830	-.0500	-.0920
.900		-.1150	-.0780	-.0740	-.0850

MACH (2) = 2.000 BETAT (5) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1210	.5870	.5520	.5320	.3710
.050	.3860	.4800	.4920	.4990	.4860
.150	.3140	.3590	.4200	.4400	.4260
.300	.2140	.2600	.3390	.3810	.3700
.520	.2160	.1950	.2510	.2790	.2460
.650	-.0780	-.0720	-.0680	-.0140	-.0140
.775	-.0430	-.0850	-.0450	-.0160	-.0660
.900		-.0770	-.0450	-.0410	-.0490

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR07) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3640	.4610	.4150	.5260	.4580
.050	.1790	-.2190	-.3120	-.3840	-.3960
.150	.1000	-.1590	-.2280	-.3020	-.3070
.300	.0150	.0240	-.1110	-.2420	-.2230
.520	-.0410	-.0830	-.0790	-.1770	-.1480
.650	-.2100	-.3610	-.3400	-.3680	-.3670
.775	-.2710	-.2870	-.3400	-.3460	-.3960
.900		-.2470	-.3460	-.3360	-.3690

MACH (1) = 1.555 BETAT (2) = -5.090

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3710	.5390	.4480	.5820	.4900
.050	.1650	-.2040	-.3220	-.3230	-.3180
.150	.1280	-.1550	-.2550	-.2210	-.2160
.300	.0410	-.0080	-.0600	-.1550	-.1380
.520	-.0110	-.0220	.0010	-.0890	-.0750
.650	-.1780	-.3440	-.3090	-.2990	-.3130
.775	-.2480	-.2700	-.3210	-.2940	-.3280
.900		-.2350	-.3130	-.2920	-.2820

MACH (1) = 1.555 BETAT (3) = -3.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4650	.6630	.5020	.6050	.4800
.050	.2400	-.1640	-.2650	-.2740	-.2730
.150	.1710	.0260	-.1730	-.1700	-.1670
.300	.0950	.0410	.0330	-.1040	-.0950
.520	.0350	-.0240	-.0120	.0160	-.0210
.650	-.2140	-.3310	-.3080	-.2830	-.2620
.775	-.2550	-.3190	-.3210	-.3000	-.2760
.900		-.2680	-.3100	-.2930	-.2550

MACH (1) = 1.555 BETAT (4) = 5.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2880	.6350	.5600	.5640	.3790
.050	.3900	.3830	.3950	.4340	.4290
.150	.2970	.3100	.3540	.4000	.3720
.300	.2270	.2440	.3300	.3630	.3140
.520	.2220	.1940	.2520	.2500	.2080
.650	-.1540	-.2140	-.2140	-.1830	-.1870
.775	-.1720	-.2160	-.1770	-.1920	-.2230
.900		-.1380	-.1820	-.2050	-.2090

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR07)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3300	.5850	.5560	.4980	.3090
.050	.3750	.4320	.4600	.5330	.5140
.150	.2910	.3400	.4270	.4780	.4300
.300	.2420	.3020	.3790	.4110	.3510
.520	.2480	.2400	.2870	.2750	.2200
.650	-.1160	-.1930	-.2050	-.1780	-.1840
.775	-.1490	-.1890	-.1570	-.1790	-.2170
.900		-.1090	-.1580	-.1930	-.1940

MACH (1) = 1.555 BETAT (6) = 9.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2020	.4650	.4750	.3850	.2120
.050	.4670	.4740	.5680	.6250	.5860
.150	.3320	.3590	.5160	.5340	.4780
.300	.2710	.3620	.4480	.4640	.3890
.520	.3230	.2930	.3320	.3020	.2290
.650	-.1060	-.1720	-.1930	-.1630	-.1770
.775	-.1160	-.1440	-.1350	-.1540	-.2030
.900		-.0760	-.1290	-.1610	-.1680

MACH (2) = 2.000 BETAT (1) = -8.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1980	.4150	.4000	.4820	.5070
.050	-.0160	-.1500	-.2080	-.2230	-.2230
.150	.0680	-.1570	-.1940	-.1780	-.1740
.300	-.0010	-.1630	-.1550	-.1510	-.1310
.520	-.0510	-.1080	-.1060	-.1140	-.0820
.650	-.1740	-.2270	-.2500	-.2560	-.2190
.775	-.1840	-.2060	-.2570	-.2690	-.2500
.900		-.1800	-.2440	-.2570	-.2510

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3630	.5520	.4800	.5700	.5450
.050	.0550	-.1300	-.2090	-.1740	-.1730
.150	.1190	-.1160	-.1470	-.1220	-.1130
.300	.0400	-.0950	-.1070	-.0900	-.0700
.520	.0050	.0130	-.0320	-.0550	-.0290
.650	-.1270	-.2000	-.2030	-.2260	-.1890
.775	-.1550	-.1910	-.2110	-.2300	-.2180
.900		-.1770	-.2040	-.2190	-.2110

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4020	.6530	.5560	.6390	.5620
.050	.1950	-.0660	-.1420	-.1130	-.1060
.150	.1740	-.0180	-.0590	-.0480	-.0460
.300	.1070	.0990	-.0090	-.0140	-.0040

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBORU7)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0500	.0350	.0490	.0080	.0460
.650	-.0900	-.1880	-.1620	-.1830	-.1610
.775	-.1370	-.1770	-.1820	-.1940	-.1800
.900		-.1650	-.1810	-.1770	-.1670

MACH (2) = 2.000 BETAT (4) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3820	.7310	.6200	.6320	.4810
.050	.3760	.4350	.4130	.4110	.4230
.150	.3120	.3380	.3770	.3910	.3900
.300	.2290	.2610	.3140	.3510	.3360
.520	.2210	.1830	.2270	.2600	.2270
.650	-.0830	-.0870	-.0700	-.0280	-.0240
.775	-.0580	-.1020	-.0640	-.0370	-.0780
.900		-.1030	-.0610	-.0650	-.0760

MACH (2) = 2.000 BETAT (5) = 5.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2560	.6450	.6120	.5820	.4310
.050	.4610	.5160	.5270	.5230	.5260
.150	.3630	.3910	.4520	.4680	.4590
.300	.2540	.2930	.3710	.4110	.3990
.520	.2610	.2250	.2830	.3020	.2690
.650	-.0660	-.0540	-.0500	.0070	.0010
.775	-.0240	-.0670	-.0250	-.0010	-.0530
.900		-.0660	-.0270	-.0230	-.0380

MACH (2) = 2.000 BETAT (6) = 8.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0830	.5520	.5830	.5270	.3630
.050	.4740	.5630	.5880	.6090	.5870
.150	.3720	.4240	.4930	.5350	.5040
.300	.2490	.3150	.4110	.4680	.4460
.520	.2850	.2650	.3310	.3640	.3220
.650	-.0450	-.0320	-.0220	.0290	.0140
.775	-.0010	-.0450	.0010	.0220	-.0200
.900		-.0330	.0030	.0010	-.0040

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1401

AMES 97-707 IA9 ORA + S3 + T9 RIGHT VERTICAL

(RBORD8) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4290	.4260	.4080	.5010	.4620
.050	-.0050	-.2480	-.3230	-.4160	-.4270
.150	.1020	-.2490	-.2660	-.3380	-.3490
.300	.0230	-.1680	-.1570	-.2790	-.2570
.520	-.0440	-.0430	-.1500	-.2220	-.1830
.650	-.2180	-.3550	-.3930	-.4270	-.3800
.775	-.2520	-.3220	-.3680	-.4020	-.4230
.900		-.2430	-.3610	-.3790	-.3970

MACH (1) = 1.555 BETAT (2) = -6.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5510	.5370	.4920	.6170	.5180
.050	-.0450	-.1670	-.3000	-.3450	-.3520
.150	.1600	-.1570	-.2290	-.2520	-.2520
.300	.0910	-.0310	-.0570	-.1850	-.1650
.520	.0260	.0000	-.0390	-.1200	-.0850
.650	-.1650	-.3280	-.3310	-.3370	-.3320
.775	-.2360	-.3080	-.3240	-.3100	-.3620
.900		-.2380	-.3160	-.3060	-.3260

MACH (1) = 1.555 BETAT (3) = -3.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5470	.6980	.5410	.6610	.5220
.050	.2540	-.1570	-.2690	-.2650	-.2570
.150	.1960	.0430	-.1570	-.1580	-.1490
.300	.1170	.0640	.0560	-.0910	-.0800
.520	.0550	.0010	.0080	.0300	-.0190
.650	-.2000	-.3180	-.3000	-.2720	-.2580
.775	-.2480	-.3230	-.3090	-.2840	-.2690
.900		-.2630	-.3000	-.2850	-.2390

MACH (1) = 1.555 BETAT (4) = 5.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3450	.6800	.5840	.5980	.4060
.050	.4540	.4080	.4110	.4740	.4600
.150	.3410	.3350	.3860	.4400	.4010
.300	.2670	.2810	.3510	.3960	.3420
.520	.2580	.2300	.2730	.2710	.2250
.650	-.1410	-.2050	-.2050	-.1770	-.1740
.775	-.1590	-.2100	-.1680	-.1850	-.2120
.900		-.1260	-.1720	-.1970	-.1990

AMES 97-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

(RBOR08)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3390	.6310	.5990	.5490	.3430
.050	.4720	.4720	.5090	.5820	.5550
.150	.3600	.3810	.4780	.5140	.4540
.300	.2990	.3580	.4190	.4480	.3810
.520	.3100	.2840	.3200	.2960	.2410
.650	-.1080	-.1790	-.1930	-.1680	-.1700
.775	-.1270	-.1710	-.1430	-.1720	-.2050
.900		-.0900	-.1440	-.1820	-.1840

MACH (1) = 1.555 BETAT (6) = 9.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2320	.5250	.5300	.4390	.2470
.050	.5270	.5210	.6240	.6640	.6250
.150	.3910	.4090	.5550	.5740	.5070
.350	.3270	.4170	.4770	.4970	.4230
.520	.3690	.3240	.3610	.3230	.2510
.650	-.0800	-.1610	-.1840	-.1580	-.1680
.775	-.0980	-.1280	-.1240	-.1470	-.1890
.900		-.0580	-.1170	-.1540	-.1550

MACH (2) = 2.000 BETAT (1) = -8.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3640	.4680	.4580	.5510	.5640
.050	-.0410	-.1330	-.1920	-.2100	-.2100
.150	.0170	-.1310	-.1800	-.1610	-.1540
.300	.0210	-.1370	-.1330	-.1330	-.1090
.520	-.0350	-.1240	-.0860	-.0950	-.0700
.650	-.1480	-.2180	-.2460	-.2470	-.2090
.775	-.1810	-.1920	-.2500	-.2590	-.2440
.900		-.1710	-.2300	-.2490	-.2430

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4400	.5980	.5230	.6370	.5990
.050	.0820	-.0960	-.1890	-.1620	-.1550
.150	.1260	-.0840	-.1280	-.1020	-.0940
.300	.0930	-.0570	-.0780	-.0710	-.0480
.520	.0350	.0200	.0010	-.0320	-.0030
.650	-.0960	-.1810	-.1890	-.2170	-.1770
.775	-.1530	-.1770	-.2060	-.2190	-.2070
.900		-.1690	-.2010	-.2090	-.1980

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5280	.7190	.6150	.6950	.6130
.050	.2170	-.0300	-.1270	-.0980	-.0930
.150	.2100	.0300	-.0350	-.0280	-.0240
.300	.1470	.1270	.0130	.0090	.0220

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1403

AMES 97-707 IA9 C2A + S3 + T9 RIGHT VERTICAL

(RBOR08)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.520	.0810	.0640	.0750	.0310	.0710
		.650	-.0690	-.1700	-.1520	-.1730	-.1480
		.775	-.1240	-.1730	-.1700	-.1840	-.1650
		.900		-.1540	-.1690	-.1600	-.1510
MACH (2) = 2.000 BETAT (4) = 3.920		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.5110	.6050	.6770	.6920	.5410
		.050	.4320	.4650	.4290	.4290	.4500
		.150	.3580	.3760	.4040	.4230	.4160
		.300	.2670	.2910	.3430	.3820	.3660
		.520	.2660	.2200	.2550	.2840	.2500
		.650	-.0660	-.0690	-.0590	-.0210	-.0140
		.775	-.0370	-.0840	-.0510	-.0320	-.0670
		.900		-.0860	-.0520	-.0590	-.0670
MACH (2) = 2.000 BETAT (5) = 5.960		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3740	.6980	.6530	.6380	.4890
		.050	.5260	.5490	.5550	.5550	.5590
		.150	.4090	.4200	.4820	.4950	.4900
		.300	.2880	.3180	.3930	.4370	.4220
		.520	.2960	.2550	.3060	.3390	.2900
		.650	-.0530	-.0410	-.0350	.0190	.0090
		.775	-.0060	-.0510	-.0140	.0060	-.0460
		.900		-.0470	-.0150	-.0140	-.0320
MACH (2) = 2.000 BETAT (6) = 8.010		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1970	.5960	.6260	.5710	.4070
		.050	.5210	.5900	.6020	.6310	.6080
		.150	.4040	.4470	.5140	.5550	.5330
		.300	.2800	.3400	.4320	.4890	.4660
		.520	.3220	.2930	.3570	.3860	.3360
		.650	-.0350	-.0200	-.0180	.0420	.0210
		.775	.0120	-.0340	.0130	.0330	-.0180
		.900		-.0240	.0120	.0070	.0020

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR09) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.500 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5160	.4730	.4440	.5400	.5050
.050	-.1010	-.2330	-.3250	-.4090	-.4200
.150	.0790	-.2260	-.2850	-.3280	-.3380
.300	.0560	-.1850	-.1510	-.2720	-.2450
.520	.0020	-.0500	-.1420	-.2100	-.1620
.650	-.2110	-.3270	-.4050	-.4230	-.3740
.775	-.2440	-.3240	-.3710	-.4020	-.4190
.900		-.2450	-.3550	-.3960	-.3880

MACH (1) = 1.555 BETAT (2) = -6.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6060	.5800	.5270	.6540	.5630
.050	-.0620	-.1550	-.2990	-.3420	-.3500
.150	.1640	-.1370	-.2260	-.2460	-.2470
.300	.1180	-.0480	-.0480	-.1820	-.1550
.520	.0510	.0220	-.0200	-.1140	-.0870
.650	-.1480	-.3090	-.3370	-.3430	-.3250
.775	-.2250	-.3120	-.3220	-.3180	-.3610
.900		-.2350	-.3090	-.3010	-.3260

MACH (1) = 1.555 BETAT (3) = -4.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5710	.6920	.5610	.6850	.5610
.050	.2080	-.1710	-.3110	-.3000	-.2980
.150	.1980	-.0080	-.2080	-.2010	-.2000
.300	.1150	.0480	-.1050	-.1430	-.1220
.520	.0440	.0020	.0100	-.0770	-.0450
.650	-.1610	-.3140	-.3130	-.3280	-.3160
.775	-.2290	-.3280	-.3170	-.2930	-.3410
.900		-.2620	-.3100	-.2900	-.2930

MACH (1) = 1.555 BETAT (4) = 3.640

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5850	.7730	.6490	.6600	.4620
.050	.4610	.3620	.3400	.3920	.4140
.150	.3630	.3300	.3580	.4050	.3730
.300	.2870	.2710	.3180	.3590	.3210
.520	.2620	.2170	.2400	.2470	.2000
.650	-.1400	-.2100	-.2060	-.1800	-.1740
.775	-.1640	-.2240	-.1850	-.1940	-.2170
.900		-.1410	-.1820	-.2100	-.2110

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1405

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR09)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 5.690

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4220	.6990	.6630	.6410	.4480
.050	.5200	.4790	.4950	.5430	.5350
.150	.3920	.3880	.4640	.5000	.4540
.300	.3190	.3460	.4180	.4450	.3820
.520	.3270	.2850	.3140	.3040	.2560
.650	-.1130	-.1800	-.1910	-.1670	-.1630
.775	-.1270	-.1780	-.1520	-.1720	-.1970
.900		-.0900	-.1520	-.1840	-.1830

MACH (1) = 1.555 BETAT (6) = 7.740

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3070	.6600	.6360	.5660	.3590
.050	.5610	.5400	.6080	.6490	.6140
.150	.4270	.4420	.5440	.5610	.5070
.300	.3720	.4240	.4760	.4900	.4240
.520	.3900	.3280	.3610	.3300	.2690
.650	-.0720	-.1630	-.1810	-.1570	-.1580
.775	-.0990	-.1460	-.1290	-.1540	-.1870
.900		-.0600	-.1280	-.1660	-.1590

MACH (2) = 2.000 BETAT (1) = -8.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4270	.5160	.5100	.6260	.6270
.050	-.0010	-.1000	-.1780	-.1950	-.1970
.150	-.0380	-.1020	-.1650	-.1420	-.1370
.300	-.0010	-.1030	-.1070	-.1110	-.0870
.520	.0060	-.1110	-.0650	-.0710	-.0450
.650	-.1260	-.2010	-.2360	-.2380	-.1980
.775	-.1680	-.1920	-.2450	-.2490	-.2290
.900		-.1730	-.2090	-.2370	-.2270

MACH (2) = 2.000 BETAT (2) = -6.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5530	.6690	.5780	.7150	.6650
.050	.0730	-.0850	-.1770	-.1450	-.1370
.150	.1640	-.0580	-.1090	-.0800	-.0700
.300	.1210	-.0220	-.0560	-.0460	-.0220
.520	.0690	.0560	.0340	-.0070	.0250
.650	-.0690	-.1630	-.1760	-.2040	-.1620
.775	-.1430	-.1700	-.1870	-.2060	-.1940
.900		-.1570	-.1840	-.1950	-.1830

MACH (2) = 2.000 BETAT (3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6780	.7960	.6720	.7680	.6700
.050	.2090	-.0080	-.1080	-.0790	-.0700
.150	.2520	.0880	-.0100	-.0040	.0000
.300	.1730	.1510	.0400	.0330	.0460

AMES 97-707 IA9 C2A + S3 + T9 RIGHT VERTICAL

(RBORD9)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1310	.0900	.1060	.0610	.0980
.650	-.0640	-.1470	-.1360	-.1570	-.1310
.775	-.1030	-.1690	-.1550	-.1700	-.1520
.900		-.1450	-.1540	-.1350	-.1340

MACH (2) = 2.000 BETAT (4) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6380	.8720	.7240	.7530	.5970
.050	.4800	.4940	.4510	.4620	.4780
.150	.3980	.4090	.4330	.4600	.4470
.300	.3060	.3210	.3730	.4230	.3950
.520	.3030	.2560	.2870	.3140	.2840
.650	-.0490	-.0540	-.0470	-.0080	.0020
.775	-.0210	-.0700	-.0320	-.0180	-.0530
.900		-.0710	-.0300	-.0440	-.0530

MACH (2) = 2.000 BETAT (5) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2610	.6700	.6910	.6590	.4830
.050	.6050	.6500	.6620	.6850	.6680
.150	.4650	.5050	.5720	.6090	.5930
.300	.3360	.3870	.4850	.5450	.5220
.520	.3820	.3530	.4160	.4440	.3880
.650	-.0010	.0130	.0090	.0650	.0470
.775	.0480	-.0040	.0440	.0590	.0000
.900		.0120	.0400	.0300	.0230

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1407

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR10) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDDL = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5810	.5290	.4830	.5950	.5550
.050	-.1150	-.2100	-.3200	-.3980	-.4110
.150	.0490	-.1980	-.2810	-.3190	-.3280
.300	.0840	-.1630	-.1390	-.2570	-.2310
.520	.0370	-.0860	-.1230	-.1910	-.1430
.650	-.2000	-.3050	-.4050	-.4160	-.3650
.775	-.2320	-.3180	-.3720	-.3950	-.4070
.900		-.2510	-.3500	-.3930	-.3710

MACH (1) = 1.555 BETAT (2) = -6.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6360	.6190	.5780	.7070	.6100
.050	-.0400	-.1420	-.2900	-.3370	-.3440
.150	.2060	-.1170	-.2190	-.2350	-.2350
.300	.1410	-.0230	-.0290	-.1770	-.1440
.520	.0700	.0470	-.0070	-.1030	-.0840
.650	-.1330	-.2970	-.3340	-.3500	-.3130
.775	-.2150	-.3090	-.3150	-.3190	-.3550
.900		-.2320	-.3000	-.2930	-.3180

MACH (1) = 1.555 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6750	.7270	.6150	.7350	.6140
.050	.1930	-.1610	-.2980	-.2890	-.2850
.150	.2170	.0170	-.1900	-.1850	-.1790
.300	.1300	.0640	-.0940	-.1220	-.1080
.520	.0820	.0230	.0360	-.0610	-.0400
.650	-.1530	-.2960	-.3070	-.3250	-.3030
.775	-.2150	-.3230	-.3020	-.2820	-.3490
.900		-.2560	-.2960	-.2770	-.3040

MACH (1) = 1.555 BETAT (4) = 3.650

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6970	.8120	.7090	.7100	.5170
.050	.4990	.3860	.3750	.4360	.4520
.150	.3990	.3660	.3980	.4440	.4080
.300	.3280	.3170	.3540	.3980	.3510
.520	.3020	.2440	.2680	.2710	.2290
.650	-.1140	-.1960	-.1940	-.1710	-.1590
.775	-.1490	-.2090	-.1780	-.1880	-.2070
.900		-.1210	-.1730	-.2030	-.2030

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR10)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 5.710

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4990	.7500	.7070	.6940	.4960
.050	.5680	.5070	.5410	.5940	.5700
.150	.4360	.4230	.5130	.5320	.4820
.300	.3620	.3880	.4490	.4700	.4190
.520	.3700	.3150	.3470	.3250	.2770
.650	-.0880	-.1690	-.1790	-.1560	-.1480
.775	-.1120	-.1670	-.1440	-.1660	-.1860
.900		-.0710	-.1390	-.1730	-.1750

MACH (1) = 1.555 BETAT (6) = 7.770

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3760	.7140	.6830	.6190	.4070
.050	.6050	.5750	.6400	.6830	.6450
.150	.4750	.4920	.5840	.5960	.5350
.300	.4250	.4760	.5070	.5310	.4560
.520	.4270	.3540	.3920	.3510	.2860
.650	-.0400	-.1510	-.1700	-.1470	-.1430
.775	-.0800	-.1270	-.1170	-.1480	-.1720
.900		-.0420	-.1120	-.1560	-.1490

MACH (2) = 2.000 BETAT (1) = -8.390

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4510	.5620	.5700	.6890	.6660
.050	.0250	-.0840	-.1560	-.1760	-.1790
.150	-.0120	-.0870	-.1490	-.1190	-.1120
.300	.0280	-.0860	-.0820	-.0890	-.0570
.520	.0130	-.1000	-.0470	-.0480	-.0180
.650	-.1050	-.1850	-.2260	-.2240	-.1820
.775	-.1620	-.1810	-.2300	-.2330	-.2210
.900		-.1590	-.1900	-.2230	-.2140

MACH (2) = 2.000 BETAT (2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6330	.7080	.6220	.7690	.7150
.050	.0100	-.0800	-.1650	-.1250	-.1180
.150	.2100	-.0420	-.0890	-.0570	-.0450
.300	.1310	-.0100	-.0320	-.0210	.0040
.520	.1030	.0950	.0550	.0190	.0560
.650	-.0490	-.1470	-.1660	-.1900	-.1460
.775	-.1290	-.1650	-.1700	-.1930	-.1850
.900		-.1440	-.1630	-.1820	-.1790

MACH (2) = 2.000 BETAT (3) = -4.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7560	.8530	.7110	.8190	.7240
.050	.2400	.0130	-.0950	-.0590	-.0460
.150	.2800	.1180	.0050	.0190	.0320
.300	.2000	.1810	.0680	.0590	.0810

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1409

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR10)

SECTION (1) RIGHT VERTICAL		DEPENDENT VARIABLE CP				
MACH (2) = 2.000 BETAT (3) = -4.280	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.1630	.1190	.1320	.0930	.1310
	.650	-.0410	-.1320	-.1220	-.1420	-.1130
	.775	-.0920	-.1570	-.1370	-.1500	-.1410
	.900		-.1360	-.1330	-.1100	-.1230
MACH (2) = 2.000 BETAT (4) = -.170	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.9900	.9490	.7690	.8510	.6820
	.050	.3440	.2270	.1420	.1270	.1430
	.150	.4030	.3450	.3460	.2550	.2390
	.300	.2960	.2790	.3000	.3400	.3540
	.520	.2630	.2000	.2220	.2550	.2640
	.650	-.0460	-.0900	-.0780	-.0410	-.0280
	.775	-.0450	-.1150	-.0880	-.0620	-.0700
	.900		-.0930	-.0770	-.0750	-.0740
MACH (2) = 2.000 BETAT (5) = 3.940	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.6950	.9110	.7610	.8040	.6260
	.050	.5420	.5340	.4910	.5070	.5120
	.150	.4490	.4410	.4760	.5030	.4780
	.300	.3390	.3570	.4120	.4530	.4250
	.520	.3380	.2920	.3230	.3470	.3100
	.650	-.0330	-.0390	-.0330	.0040	.0180
	.775	-.0030	-.0580	-.0170	-.0050	-.0360
	.900		-.0550	-.0180	-.0320	-.0370
MACH (2) = 2.000 BETAT (6) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.5030	.8120	.7420	.7500	.5890
	.050	.6330	.6220	.6290	.6280	.6360
	.150	.4900	.4910	.5510	.5780	.5610
	.300	.3650	.3880	.4750	.5350	.4960
	.520	.3860	.3390	.3940	.4110	.3570
	.650	-.0120	-.0070	.0030	.0440	.0450
	.775	.0380	-.0160	.0250	.0360	-.0130
	.900		.0000	.0220	.0120	-.0020
MACH (2) = 2.000 BETAT (7) = 8.050	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3130	.7040	.7090	.6710	.5110
	.050	.6630	.6850	.7100	.7290	.7340
	.150	.5070	.5420	.6120	.6530	.6330
	.300	.3720	.4240	.5320	.6060	.5580
	.520	.4250	.3950	.4730	.4900	.4260

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR10)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	.0190	.0260	.0320	.0690	.0571
.775	.0660	.0140	.0620	.0750	.0221
.900		.0420	.0570	.0470	.0321

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1411

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR11) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.420

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5690	.5070	.4750	.5820	.5525
.050	-.1080	-.2150	-.3310	-.4050	-.4180
.150	-.0090	-.2020	-.2960	-.3270	-.3350
.300	.0600	-.1750	-.1520	-.2650	-.2360
.520	.0160	-.1050	-.0850	-.2050	-.1590
.650	-.2250	-.0930	-.0900	-.2110	-.3750
.775	-.2390	-.1110	-.0820	-.1090	-.3630
.900		-.1300	-.0940	-.1400	-.3290

MACH (1) = 1.555 BETAT (2) = -6.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6490	.6290	.5620	.7030	.6060
.050	-.0550	-.1460	-.2960	-.3400	-.3470
.150	.2040	-.1120	-.2360	-.2410	-.2410
.300	.1440	-.0250	-.0410	-.1770	-.1470
.520	.0560	.0420	.0380	-.1130	-.0950
.650	-.1510	.0040	.0280	-.0740	-.3150
.775	-.2170	-.0810	.0240	.0660	-.2830
.900		-.0910	.0010	.0020	-.1640

MACH (1) = 1.555 BETAT (3) = -4.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6830	.7340	.6100	.7430	.6320
.050	.1970	-.1560	-.3050	-.2870	-.2880
.150	.2190	.0180	-.1900	-.1840	-.1770
.300	.1350	.0610	-.0910	-.1240	-.0980
.520	.0660	.0270	.0360	-.0560	-.0510
.650	-.1670	.0040	.0680	-.0240	-.2930
.775	-.2170	-.0840	.0580	.1170	-.2460
.900		-.1160	.0270	.0280	-.0780

MACH (1) = 1.555 BETAT (4) = -1.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9340	.8150	.6860	.7560	.5960
.050	.2940	.0660	-.0260	-.0350	-.0090
.150	.3210	.2500	.2350	.2360	.2120
.300	.2360	.1950	.2060	.2410	.2170
.520	.1760	.1330	.1530	.1840	.2090
.650	-.1820	.0940	.2110	.2590	-.1110
.775	-.1930	.0050	.1770	.2280	-.0610
.900		-.0150	.1370	.1040	-.0430

AMES 97-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

(RBOR11)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6190	.8020	.7060	.7070	.5110
.050	.5190	.4200	.4100	.4720	.4720
.150	.4120	.3740	.4110	.4570	.4320
.300	.3380	.3340	.3740	.4120	.3750
.520	.2850	.2580	.2950	.3420	.3430
.650	-.1190	.2000	.3560	.3940	-.0540
.775	-.1370	.1020	.2880	.3190	.0060
.900		.1140	.2380	.1890	-.0310

MACH (1) = 1.555 BETAT (6) = 6.000

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4810	.7490	.7150	.6870	.4830
.050	.5660	.5310	.5590	.6170	.5920
.150	.4380	.4450	.5260	.5530	.5090
.300	.3720	.4150	.4680	.4880	.4420
.520	.3570	.3330	.3770	.4090	.3980
.650	-.0820	.2480	.4000	.4490	-.0190
.775	-.1000	.1640	.3400	.3690	.0430
.900		.1880	.2990	.2320	.0040

MACH (1) = 1.555 BETAT (7) = 8.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3960	.6850	.6640	.5880	.3740
.050	.6220	.5830	.6600	.7000	.6610
.150	.4800	.5080	.5970	.6100	.5610
.300	.4270	.4950	.5160	.5370	.4790
.520	.4100	.3660	.4110	.4580	.4380
.650	-.0540	.2690	.4310	.4850	.0050
.775	-.0740	.1990	.3820	.3980	.0620
.900		.2240	.3530	.2640	.0220

MACH (2) = 2.000 BETAT (1) = -8.390

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4580	.5530	.5660	.6950	.6690
.050	.0240	-.0830	-.1540	-.1800	-.1820
.150	-.0140	-.0870	-.1480	-.1260	-.1160
.300	.0170	-.0870	-.0780	-.0930	-.0620
.520	.0100	-.0980	-.0280	-.0470	-.0220
.650	-.1110	-.0990	-.0230	-.0730	-.1820
.775	-.1640	-.0850	-.0150	-.0160	-.1870
.900		-.0830	-.0080	-.0470	-.1810

MACH (2) = 2.000 BETAT (2) = -6.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6580	.7040	.6170	.7700	.7190
.050	-.0020	-.0830	-.1600	-.1290	-.1220
.150	.2130	-.0450	-.0970	-.0630	-.0480
.300	.1310	-.0240	-.0350	-.0250	.0050

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR11)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1030	.1040	.0650	.0220	.0500
.650	-.0560	.0920	.0950	.0070	-.1460
.775	-.1280	.0150	.0930	.0710	-.1420
.900		-.0090	.0830	.0370	-.1220

MACH (2) = 2.000 BETAT (3) = -4.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7440	.8400	.7100	.8180	.7210
.050	.2470	.0110	-.0980	-.0630	-.0540
.150	.2850	.1100	.0030	.0130	.0280
.300	.1990	.1800	.0600	.0550	.0720
.520	.1530	.1170	.1310	.0870	.1140
.650	-.0440	.1080	.1550	.1120	-.1080
.775	-.0910	.0370	.1470	.1780	-.0930
.900		.0000	.1320	.1660	-.0320

MACH (2) = 2.000 BETAT (4) = -.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9870	.9460	.7610	.8480	.6810
.050	.3380	.2150	.1330	.1120	.1330
.150	.4000	.3380	.3230	.2410	.2390
.300	.2960	.2750	.2940	.3370	.3680
.520	.2530	.1960	.2170	.2510	.2670
.650	-.0490	.1920	.2510	.3090	.0100
.775	-.0420	.1150	.2450	.3080	.0260
.900		.0690	.2250	.2310	.0250

MACH (2) = 2.000 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7210	.9210	.7670	.8040	.6330
.050	.5450	.5290	.4830	.4990	.5060
.150	.4480	.4450	.4720	.5030	.4900
.300	.3470	.3640	.4090	.4530	.4370
.520	.3280	.2940	.3270	.3500	.3350
.650	-.0400	.2960	.3920	.4480	.0890
.775	.0040	.2110	.3660	.4470	.1230
.900		.1680	.3300	.3560	.0950

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4940	.8130	.7410	.7540	.5920
.050	.6320	.6230	.6230	.6310	.6340
.150	.4900	.4950	.5510	.5760	.5720
.300	.3660	.3910	.4680	.5280	.4990
.520	.3750	.3430	.3890	.4300	.3920

AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBOR11)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.0270	.3410	.4870	.5520	.1530
.775	.0390	.2660	.4310	.5210	.1810
.900		.2200	.3840	.4110	.1360

MACH (2) = 2.000 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3360	.7110	.7080	.6800	.5170
.050	.6680	.6830	.7050	.7280	.7340
.150	.5080	.5430	.6050	.6480	.6490
.300	.3730	.4220	.5260	.5920	.5680
.520	.4140	.4020	.4780	.5590	.5130
.650	.0030	.3900	.5540	.5990	.1810
.775	.0710	.3070	.4850	.5610	.2160
.900		.2640	.4380	.4550	.1630

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1415

AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

(RBOR12) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4370	.4080	.3860	.4610	.4530
.050	-.0890	-.2550	-.3280	-.4220	-.4320
.150	.0530	-.2580	-.2860	-.3470	-.3570
.300	.0210	-.2230	-.1700	-.2930	-.2670
.520	-.0540	-.0570	-.1100	-.2330	-.2040
.650	-.2410	-.0920	-.1320	-.2340	-.3880
.775	-.2560	-.1470	-.1250	-.1140	-.3850
.900		-.1640	-.1330	-.1390	-.3780

MACH (1) = 1.555 BETAT (2) = -6.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5600	.5390	.4830	.6060	.5060
.050	-.0230	-.1810	-.3050	-.3540	-.3640
.150	.1580	-.1660	-.2540	-.2610	-.2620
.300	.0900	-.0260	-.0730	-.2020	-.1730
.520	.0150	-.0070	-.0050	-.1330	-.1090
.650	-.1810	-.0460	-.0250	-.0830	-.3330
.775	-.2400	-.1170	-.0250	.0350	-.2950
.900		-.1310	-.0420	-.0290	-.1690

MACH (1) = 1.555 BETAT (3) = -4.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4620	.6400	.5120	.6350	.5160
.050	.2080	-.1720	-.3210	-.3100	-.3150
.150	.1700	-.0680	-.2250	-.2200	-.2100
.300	.0950	.0320	-.1190	-.1590	-.1390
.520	-.0020	-.0240	-.0150	-.0990	-.0900
.650	-.1930	-.0700	.0150	-.0610	-.3070
.775	-.2460	-.1290	-.0020	.0740	-.2410
.900		-.1410	-.0310	.0260	-.1120

MACH (1) = 1.555 BETAT (4) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8540	.7420	.5840	.6620	.4960
.050	.2310	.0100	-.0680	-.0710	-.0340
.150	.2610	.1880	.1780	.1540	.1390
.300	.1760	.1370	.1390	.1780	.2040
.520	.1180	.0760	.0980	.1240	.1420
.650	-.2240	.0470	.1520	.1990	-.1370
.775	-.2240	-.0360	.1250	.1770	-.0960
.900		-.0640	.0910	.0790	-.0980

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR12)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4260	.7250	.5910	.5930	.4020
.050	.4360	.3610	.3370	.3850	.4080
.150	.3340	.3110	.3390	.3830	.3600
.300	.2560	.2470	.3070	.3420	.3090
.520	.2090	.2000	.2440	.2840	.2670
.650	-.1650	.1530	.3000	.3550	-.0700
.775	-.1720	.0580	.2320	.2740	-.0280
.900		.0570	.1900	.1760	-.0700

MACH (1) = 1.555 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3850	.6600	.6090	.5850	.3880
.050	.4670	.4470	.4530	.5230	.4960
.150	.3460	.3590	.4360	.4710	.4360
.300	.2790	.3140	.3900	.4120	.3710
.520	.2700	.2610	.3180	.3470	.3290
.650	-.1370	.2000	.3480	.3950	-.0380
.775	-.1390	.1150	.2840	.3170	.0030
.900		.1320	.2410	.2140	-.0370

MACH (1) = 1.555 BETAT (7) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2510	.5850	.5680	.4980	.2980
.050	.5080	.5040	.5800	.6210	.5890
.150	.3760	.3960	.5190	.5410	.4970
.300	.3130	.3920	.4490	.4770	.4250
.520	.3290	.3090	.3560	.4050	.3780
.650	-.0990	.2240	.3700	.4310	-.0130
.775	-.1100	.1550	.3250	.3540	.0280
.900		.1720	.2870	.2490	-.0100

MACH (2) = 2.000 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3340	.4630	.4540	.5560	.5620
.050	-.0350	-.1290	-.1870	-.2070	-.2080
.150	.0180	-.1340	-.1800	-.1600	-.1540
.300	.0130	-.1380	-.1280	-.1320	-.1070
.520	-.0380	-.1270	-.0770	-.0900	-.0690
.650	-.1560	-.1290	-.0730	-.1090	-.2110
.775	-.1830	-.1040	-.0720	-.0730	-.2140
.900		-.1010	-.0690	-.0900	-.2100

MACH (2) = 2.000 BETAT (2) = -6.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4680	.5940	.5190	.6390	.6040
.050	.0680	-.0970	-.1760	-.1590	-.1540
.150	.1320	-.0890	-.1310	-.1030	-.0900
.300	.0860	-.0700	-.0770	-.0690	-.0450

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1417

AMES 97-707 IA9 OEA + S3 + T9 RIGHT VERTICAL

(RBOR12)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0280	.0260	.0120	-.0260	-.0030
.650	-.1100	.0080	.0270	-.0350	-.1690
.775	-.1530	-.0380	.0230	.0140	-.1740
.900		-.0550	.0110	-.0030	-.1570

MACH (2) = 2.000 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5080	.7180	.6100	.6980	.6180
.050	.2180	-.0370	-.1230	-.0920	-.0860
.150	.2060	.0190	-.0350	-.0250	-.0170
.300	.1530	.1310	.0140	.0090	.0270
.520	.0780	.0650	.0750	.0380	.0700
.650	-.0730	.0410	.0930	.0660	-.1360
.775	-.1240	-.0230	.0870	.1120	-.1200
.900		-.0320	.0700	.1070	-.0810

MACH (2) = 2.000 BETAT (4) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8670	.8490	.6600	.7260	.5870
.050	.2590	.1700	.0940	.0710	.0910
.150	.3200	.2790	.2640	.1880	.1830
.300	.2240	.2080	.2380	.2750	.3010
.520	.1840	.1340	.1620	.1980	.2080
.650	-.0880	.1320	.1850	.2450	-.0210
.775	-.0850	.0650	.1820	.2470	-.0160
.900		.0270	.1620	.1780	-.0220

MACH (2) = 2.000 BETAT (5) = 3.920

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4850	.7880	.6710	.6880	.5320
.050	.4240	.4640	.4290	.4300	.4490
.150	.3500	.3690	.4000	.4200	.4190
.300	.2630	.2900	.3410	.3800	.3690
.520	.2440	.2150	.2530	.2850	.2590
.650	-.0760	.2270	.3100	.3750	.0480
.775	-.0390	.1590	.3020	.3780	.0660
.900		.1200	.2690	.2970	.0380

MACH (2) = 2.000 BETAT (6) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3700	.6910	.6500	.6390	.4890
.050	.5300	.5440	.5520	.5550	.5560
.150	.4090	.4220	.4770	.4970	.5010
.300	.2850	.3190	.4000	.4380	.4320
.520	.2840	.2550	.3060	.3480	.3170

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR12)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.0650	.2750	.3990	.4700	.1040
.775	.0010	.2120	.3690	.4510	.1330
.900		.1710	.3270	.3570	.0830

MACH (2) = 2.000 BETAT (7) = 8.010

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1950	.6080	.6380	.5890	.4240
.050	.5240	.6070	.6200	.6450	.6250
.150	.4070	.4640	.5270	.5720	.5660
.300	.2850	.3540	.4480	.5040	.4940
.520	.3180	.3080	.3760	.4470	.4370
.650	-.0420	.3190	.4630	.5300	.1480
.775	.0200	.2450	.4160	.5210	.1770
.900		.2080	.3780	.4090	.1200

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1419

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR13) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.310	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2090	.3370	.3070	.3810	.3730
		.050	.0650	-.2960	-.3390	-.4290	-.4400
		.150	.0540	-.3040	-.2890	-.3570	-.3700
		.300	-.0120	-.0480	-.1920	-.3100	-.2880
		.520	-.0710	-.1070	-.1320	-.2530	-.2260
		.650	-.2790	-.1560	-.1540	-.2380	-.3980
		.775	-.2830	-.1800	-.1530	-.1250	-.3930
		.900		-.2010	-.1630	-.1520	-.3880

MACH (1) = 1.555	BETAT (2) = -6.280	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.4180	.4700	.4150	.5150	.4400
		.050	.1440	-.1980	-.3020	-.3580	-.3640
		.150	.0970	-.0520	-.2190	-.2720	-.2710
		.300	.0420	.0270	-.0740	-.2070	-.1870
		.520	-.0200	-.0790	-.0370	-.1380	-.1280
		.650	-.2140	-.1230	-.0480	.0370	-.3170
		.775	-.2790	-.1420	-.0590	.0410	-.2260
		.900		-.1760	-.0730	-.0350	-.1840

MACH (1) = 1.555	BETAT (3) = -4.240	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3150	.5610	.4370	.5350	.4390
		.050	.1750	-.1810	-.3210	-.3300	-.3260
		.150	.1030	-.0990	-.2450	-.2360	-.2350
		.300	.0450	.0090	-.0650	-.1790	-.1460
		.520	-.0200	-.0680	-.0550	-.1040	-.0680
		.650	-.2310	-.1240	-.0330	.1090	-.2700
		.775	-.2700	-.1510	.0000	.1200	-.1450
		.900		-.1730	.0000	.0330	-.1160

MACH (1) = 1.555	BETAT (4) = -.140	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.7110	.6670	.4950	.5630	.4120
		.050	.1950	-.0200	-.0730	-.0870	-.0280
		.150	.1910	.1430	.1340	.1300	.1190
		.300	.1240	.0890	.0940	.1280	.1440
		.520	.0720	.0280	.0540	.0770	.0940
		.650	-.2540	.0140	.1070	.1510	-.1740
		.775	-.2500	-.0650	.0860	.1380	-.1320
		.900		-.1030	.0540	.0560	-.1430

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR13)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3120	.6380	.5100	.5090	.3500
	.050	.3110	.6360	.5060	.5090	.3390
	.100	.2430	.2530	.2650	.3130	.3120
	.300	.1740	.1820	.2380	.2840	.2700
	.520	.1450	.1470	.1890	.2480	.2280
	.650	-.1910	.1040	.2460	.3020	-.0910
	.775	-.1980	.0270	.1880	.2400	-.0490
	.900		.0300	.1490	.1600	-.0940

MACH (1) = 1.555 BETAT (6) = 5.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3370	.5730	.5210	.4970	.3120
	.050	.2690	.3580	.3620	.4350	.4260
	.150	.2160	.2820	.3430	.4000	.3690
	.300	.1750	.2360	.3210	.3440	.3100
	.520	.1670	.1930	.2430	.2870	.2680
	.650	-.1440	.1430	.2920	.3390	-.0650
	.775	-.1750	.0700	.2290	.2740	-.0290
	.900		.0860	.1910	.1900	-.0710

MACH (1) = 1.555 BETAT (7) = 8.030	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1860	.4710	.4650	.3940	.2300
	.050	.3530	.3980	.4780	.5300	.5160
	.150	.2680	.3070	.4250	.4570	.4300
	.300	.2120	.2880	.3770	.4030	.3580
	.520	.2210	.2360	.2910	.3430	.3110
	.650	-.1300	.1670	.3110	.3680	-.0450
	.775	-.1550	.1050	.2650	.3040	-.0080
	.900		.1230	.2320	.2200	-.0540

MACH (2) = 2.000 BETAT (1) = -8.300	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1200	.3360	.3430	.4190	.4480
	.050	.0210	-.1600	-.2120	-.2380	-.2400
	.150	.0460	-.1730	-.2090	-.1980	-.1950
	.300	-.0340	-.1800	-.1650	-.1680	-.1540
	.520	-.0720	-.1270	-.1150	-.1330	-.1170
	.650	-.1940	-.1280	-.1190	-.1540	-.2360
	.775	-.1930	-.1310	-.1160	-.1230	-.2350
	.900		-.1390	-.1200	-.1330	-.2360

MACH (2) = 2.000 BETAT (2) = -6.260	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2850	.4930	.4230	.5080	.4890
	.050	.0280	-.1430	-.2080	-.1950	-.1910
	.150	.0980	-.1370	-.1630	-.1480	-.1350

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1421

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR13)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	-.0200	-.0170	-.0490	-.0790	-.0540
	.650	-.1550	-.0380	-.0280	-.0900	-.2020
	.775	-.1620	-.0770	-.0280	-.0480	-.2020
	.900		-.0940	-.0360	-.0630	-.1900
MACH (2) = 2.000 BETAT (3) = -4.220	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3110	.5960	.5030	.5790	.5200
	.050	.1660	-.0950	-.1650	-.1340	-.1280
	.150	.1380	-.0540	-.0790	-.0760	-.0660
	.300	.0760	.0710	-.0400	-.0360	-.0270
	.520	.0240	.0080	.0190	-.0120	.0090
	.650	-.1180	-.0230	.0350	.0100	-.1700
	.775	-.1530	-.0620	.0300	.0460	-.1550
	.900		-.0770	.0140	.0450	-.1250
MACH (2) = 2.000 BETAT (4) = -.140	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7350	.7450	.5620	.6140	.4970
	.050	.2290	.1460	.0790	.0560	.0690
	.150	.2560	.2300	.2130	.1590	.1490
	.300	.1710	.1600	.1890	.2250	.2430
	.520	.1320	.0900	.1210	.1550	.1620
	.650	-.1100	.0930	.1420	.2020	-.0500
	.775	-.1100	.0400	.1360	.1970	-.0460
	.900		.0010	.1220	.1380	-.0580
MACH (2) = 2.000 BETAT (5) = 3.930	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2650	.6650	.5720	.5800	.4330
	.050	.3250	.4030	.3930	.3920	.4030
	.150	.2700	.3100	.3500	.3690	.3700
	.300	.1950	.2350	.2890	.3220	.3190
	.520	.1770	.1590	.2050	.2390	.2150
	.650	-.0980	.1710	.2560	.3200	.0230
	.775	-.0710	.1180	.2500	.3320	.0330
	.900		.0860	.2280	.2590	.0120
MACH (2) = 2.000 BETAT (6) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1720	.5910	.5590	.5320	.3780
	.050	.3780	.4750	.4910	.4900	.4800
	.150	.3030	.3520	.4170	.4360	.4300
	.300	.2120	.2610	.3380	.3770	.3730
	.520	.2070	.1990	.2460	.2820	.2670

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR13)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.650	-.0830	.2190	.3210	.3810	.0690
	.775	-.0420	.1620	.3030	.3950	.0940
	.900		.1250	.2710	.3070	.0500
MACH (2) = 2.000 BETAT (7) = 8.020	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.0430	.4830	.5210	.4600	.3110
	.050	.4250	.5210	.5520	.5720	.5490
	.150	.3240	.3900	.4580	.5010	.4830
	.300	.2110	.2850	.3780	.4390	.4180
	.520	.2250	.2210	.2970	.3570	.3470
	.650	-.0790	.2500	.3850	.4560	.1210
	.775	-.0180	.1980	.3560	.4550	.1410
	.900		.1630	.3190	.3560	.0900

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1423

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR14) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2380	.2650	.2230	.2910	.2940
.050	.1820	-.2970	-.3540	-.4380	-.4590
.150	.0830	-.1750	-.2980	-.3860	-.3950
.300	-.0050	-.0890	-.2180	-.3400	-.3180
.520	-.0670	-.1450	-.1740	-.2860	-.2480
.650	-.3060	-.1890	-.1990	-.2500	-.4150
.775	-.3090	-.2040	-.2040	-.1090	-.4060
.900		-.2260	-.2100	-.1530	-.3460

MACH (1) = 1.555 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2950	.3670	.3470	.4320	.3680
.050	.1310	-.1840	-.3060	-.3680	-.3730
.150	.1160	-.0180	-.2150	-.2850	-.2870
.300	.0580	-.0250	-.0930	-.2310	-.2100
.520	.0110	-.0970	-.0820	-.1060	-.1360
.650	-.2210	-.1320	-.0780	-.0070	-.3220
.775	-.2690	-.1530	-.0910	-.0190	-.2380
.900		-.1940	-.1060	-.0660	-.2250

MACH (1) = 1.555 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2560	.4740	.3620	.4680	.5880
.050	.1970	-.1900	-.3100	-.3190	-.3130
.150	.1090	-.0100	-.2460	-.2150	-.2100
.300	.0270	-.0210	-.0180	-.1530	-.1380
.520	-.0150	-.0750	-.0330	-.0080	.0120
.650	-.2250	-.1210	-.0040	.0430	-.2060
.775	-.2670	-.1380	-.0230	.0550	-.1720
.900		-.1650	-.0410	-.0080	-.1570

MACH (1) = 1.555 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6110	.5920	.4250	.4780	.3370
.050	.1220	-.0390	-.1020	-.0990	-.0850
.150	.1430	.0980	.0820	.0710	.0410
.300	.0790	.0450	.0530	.0820	.1010
.520	.0370	-.0080	.0130	.0300	.0480
.650	-.2850	-.0220	.0610	.0960	-.2110
.775	-.2530	-.0900	.0420	.0970	-.1640
.900		-.1330	.0090	.0250	-.1780

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR14)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2490	.5480	.4410	.4640	.3100
.050	.1660	.2250	.2090	.2490	.2550
.150	.1310	.1800	.2080	.2500	.2450
.300	.0850	.1210	.1800	.2240	.2100
.520	.0680	.0790	.1320	.1930	.1830
.650	-.2210	.0530	.1930	.2500	-.1260
.775	-.2210	-.0210	.1410	.2080	-.0930
.900		-.0040	.1040	.1220	-.1320

MACH (1) = 1.555 BETAT (6) = 6.000

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1470	.3940	.4420	.4310	.2660
.050	.2030	.2300	.2950	.3450	.3450
.150	.1520	.1880	.2690	.3190	.3030
.300	.1020	.1630	.2440	.2850	.2540
.520	.1100	.1200	.1720	.2280	.2130
.650	-.1610	.0680	.2210	.2800	-.0970
.775	-.1960	.0410	.1770	.2440	-.0590
.900		.0480	.1510	.1580	-.1020

MACH (1) = 1.555 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2840	.3900	.3890	.3330	.1630
.050	.1950	.3150	.3800	.4520	.4430
.150	.1630	.2380	.3370	.3920	.3690
.300	.1320	.2060	.3090	.3350	.3020
.520	.1490	.1710	.2300	.2890	.2480
.650	-.1240	.1090	.2560	.3090	-.0740
.775	-.1760	.1020	.2190	.2800	-.0340
.900		.0910	.2000	.1940	-.0790

MACH (2) = 2.000 BETAT (1) = -8.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1520	.2970	.2780	.3540	.3700
.050	.0740	-.1940	-.2230	-.2620	-.2500
.150	.0190	-.2170	-.2130	-.2340	-.2080
.300	-.0360	-.1060	-.1880	-.2040	-.1690
.520	-.0690	-.1090	-.1510	-.1690	-.1280
.650	-.2080	-.1190	-.1570	-.1830	-.2400
.775	-.2010	-.1220	-.1550	-.1580	-.2590
.900		-.1340	-.1580	-.1540	-.2630

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1360	.3780	.3310	.3870	.3920
.050	.0560	-.1600	-.1990	-.2210	-.2180
.150	.0620	-.1740	-.1910	-.1800	-.1720
.300	-.0100	-.0840	-.1410	-.1480	-.1330

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR14)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	-.0160	-.0700	-.0880	-.1160	-.0990
	.650	-.1670	-.0960	-.0810	-.1190	-.2210
	.775	-.1800	-.1080	-.0730	-.0860	-.2200
	.900		-.1190	-.0740	-.0830	-.2120
MACH (2) = 2.000 BETAT (3) = -4.200	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2010	.5050	.4210	.4670	.4270
	.050	.1710	-.1070	-.1660	-.1590	-.1510
	.150	.1230	-.0540	-.1050	-.1020	-.0960
	.300	.0540	.0200	-.0560	-.0640	-.0590
	.520	.0220	-.0270	-.0110	-.0320	-.0240
	.650	-.1330	-.0650	.0040	-.0200	-.1780
	.775	-.1590	-.0820	-.0040	.0360	-.1640
	.900		-.1020	-.0200	.0210	-.1370
MACH (2) = 2.000 BETAT (4) = -.130	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7160	.6430	.4830	.5210	.4160
	.050	.0900	.0720	.0320	.0180	.0350
	.150	.1920	.1840	.1410	.1040	.1040
	.300	.1190	.1170	.1440	.1740	.1910
	.520	.0870	.0490	.0770	.1110	.1200
	.650	-.1550	.0550	.0980	.1560	-.0780
	.775	-.1310	.0110	.0930	.1540	-.0760
	.900		-.0240	.0820	.1030	-.0910
MACH (2) = 2.000 BETAT (5) = 3.950	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1710	.5670	.4830	.4640	.3380
	.050	.2160	.3230	.3300	.3440	.3460
	.150	.1990	.2430	.2900	.3110	.3180
	.300	.1410	.1750	.2300	.2640	.2650
	.520	.1170	.1120	.1520	.1940	.1780
	.650	-.0890	.1190	.1990	.2690	-.0010
	.775	-.0980	.0650	.1990	.2940	.0100
	.900		.0580	.1810	.2190	-.0180
MACH (2) = 2.000 BETAT (6) = 5.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1060	.4600	.4620	.4110	.2790
	.050	.3470	.4070	.4310	.4330	.4220
	.150	.2690	.2910	.3540	.3770	.3760
	.300	.1510	.1950	.2800	.3220	.3190
	.520	.1400	.1280	.1920	.2350	.2210

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR14)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.650	-.1170	.1560	.2500	.3170	.0340
		.775	-.0620	.1240	.2530	.3510	.0570
		.900		.0960	.2320	.2710	.0260
MACH (2) = 2.000 BETAT (7) = 8.040		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1350	.3660	.4280	.3710	.2140
		.050	.2620	.4150	.4650	.5100	.4920
		.150	.2060	.2840	.3800	.4400	.4340
		.300	.1020	.1940	.3070	.3810	.3670
		.520	.1440	.1720	.2550	.3070	.3040
		.650	-.1230	.1870	.3220	.3930	.0810
		.775	-.0630	.1470	.2870	.3960	.0960
		.900		.1160	.2580	.2970	.0550

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1427

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR15) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2930	.2390	.1620	.2330	.2410
.050	.1770	-.3180	-.3600	-.4320	-.4670
.150	.0770	-.1570	-.3010	-.4040	-.4100
.300	-.0130	-.1090	-.2390	-.3580	-.3370
.520	-.0640	-.1610	-.2020	-.2800	-.2740
.650	-.3150	-.2010	-.2240	-.1820	-.4190
.775	-.3120	-.2150	-.2200	-.1400	-.3840
.900		-.2240	-.2110	-.1780	-.3550

MACH (1) = 1.555 BETAT (2) = -6.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3930	.3180	.2960	.3710	.3230
.050	.1890	-.1990	-.2960	-.3770	-.3920
.150	.1250	-.0110	-.1870	-.3050	-.3190
.300	.0610	-.0340	-.1230	-.2560	-.2370
.520	-.0020	-.1060	-.1010	-.1000	-.1010
.650	-.2400	-.1500	-.1060	-.0520	-.2960
.775	-.2830	-.1550	-.1150	-.0360	-.2520
.900		-.1900	-.1260	-.0900	-.2420

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2540	.3820	.3330	.4220	.3450
.050	.1960	-.1920	-.2800	-.3160	-.3210
.150	.1090	-.0020	-.1580	-.2240	-.2130
.300	.0360	-.0180	-.0370	-.1090	-.1440
.520	-.0040	-.0910	-.0420	-.0270	.0010
.650	-.2130	-.1310	-.0330	.0180	-.2030
.775	-.2660	-.1470	-.0440	.0300	-.1840
.900		-.1750	-.0580	-.0340	-.1790

MACH (1) = 1.555 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5710	.5550	.3860	.4310	.2980
.050	.0900	-.0650	-.1160	-.1170	-.0920
.150	.1130	.0670	.0700	.0420	.0390
.300	.0530	.0220	.0310	.0600	.0770
.520	.0150	-.0250	-.0060	.0140	.0330
.650	-.2940	-.0370	.0430	.0780	-.2170
.775	-.2490	-.1100	.0200	.0760	-.1780
.900		-.1470	-.0110	.0090	-.1950

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR15)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2080	.4800	.4130	.4260	.2820
.050	.1150	.1940	.1830	.2140	.2350
.150	.1040	.1490	.1840	.2290	.2240
.300	.0620	.1030	.1680	.2060	.1900
.520	.0490	.0630	.1160	.1740	.1680
.650	-.1750	.0290	.1750	.2290	-.1380
.775	-.2120	-.0190	.1170	.1880	-.1050
.900		-.0030	.0860	.1060	-.1450

MACH (1) = 1.555 BETAT (6) = 6.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2360	.2950	.3950	.3880	.2220
.050	.2200	.1990	.2660	.3180	.3320
.150	.1550	.1670	.2420	.2980	.2860
.300	.0940	.1310	.2230	.2590	.2300
.520	.1060	.1140	.1530	.2080	.1890
.650	-.2360	.0600	.1950	.2540	-.1090
.775	-.2090	.0130	.1530	.2210	-.0770
.900		.0230	.1240	.1400	-.1220

MACH (1) = 1.555 BETAT (7) = 8.080

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3650	.3700	.3380	.2800	.1190
.050	.1930	.3130	.3400	.4280	.4060
.150	.1540	.2320	.3060	.3650	.3440
.300	.1030	.1700	.2820	.3140	.2780
.520	.1320	.1690	.2230	.2640	.2240
.650	-.2240	.1210	.2340	.2910	-.0810
.775	-.1920	.0580	.1940	.2630	-.0480
.900		.0530	.1600	.1730	-.0930

MACH (2) = 2.000 BETAT (1) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2420	.3070	.2870	.3540	.3480
.050	.0640	-.1680	-.2040	-.2310	-.2310
.150	.0650	-.1770	-.2010	-.1940	-.1850
.300	.0080	-.0650	-.1470	-.1600	-.1490
.520	.0000	-.0770	-.0970	-.1310	-.1150
.650	-.1650	-.1000	-.0910	-.1270	-.2280
.775	-.1830	-.1070	-.0840	-.1030	-.2290
.900		-.1170	-.0830	-.0880	-.2250

MACH (2) = 2.000 BETAT (2) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1360	.4470	.3840	.4270	.3860
.050	.1690	-.1040	-.1670	-.2430	-.1590
.150	.1230	-.0300	-.1230	-.1120	-.1090
.300	.0480	-.0030	-.0650	-.0740	-.0680

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1429

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR15)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0240	-.0370	-.0270	-.0440	-.0330
.650	-.1450	-.0710	-.0110	-.0270	-.1770
.775	-.1640	-.0890	-.0180	.0360	-.1710
.900		-.1020	-.0260	.0140	-.1420

MACH (2) = 2.000 BETAT (3) = -1.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7060	.6110	.4360	.4760	.3760
.050	.0440	.0310	.0000	-.0070	.0070
.150	.1730	.1550	.0930	.0670	.0720
.300	.0890	.0940	.1230	.1500	.1570
.520	.0600	.0300	.0590	.0900	.0980
.650	-.1680	.0380	.0830	.1360	-.0930
.775	-.1440	.0070	.0780	.1370	-.0820
.900		-.0250	.0690	.0880	-.1020

MACH (2) = 2.000 BETAT (4) = 3.970

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1250	.5170	.4510	.4300	.2980
.050	.1690	.2820	.2970	.3160	.3220
.150	.1630	.2140	.2590	.2850	.3000
.300	.1110	.1510	.2050	.2470	.2530
.520	.0910	.0870	.1300	.1740	.1600
.650	-.1160	.0910	.1720	.2410	-.0020
.775	-.1070	.0470	.1840	.2640	-.0080
.900		.0480	.1690	.2010	-.0030

MACH (2) = 2.000 BETAT (5) = 6.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1680	.4000	.4190	.3810	.2360
.050	.2900	.3590	.3860	.4070	.3640
.150	.2240	.2420	.3130	.3480	.3500
.300	.1100	.1580	.2490	.2970	.3030
.520	.1150	.1170	.1740	.2170	.2100
.650	-.1280	.1380	.2470	.3130	.0640
.775	-.0780	.1020	.2230	.3310	.0490
.900		.0740	.2040	.2490	.0090

MACH (2) = 2.000 BETAT (6) = 8.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1540	.2910	.3560	.3140	.1750
.050	.1690	.3550	.4210	.4780	.4540
.150	.1400	.2560	.3460	.4070	.3980
.300	.0700	.1740	.2830	.3500	.3330
.520	.1080	.1390	.2210	.2770	.2720

AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBOR15)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1400	.1560	.2820	.3550	.5550
.775	-.0730	.1270	.2500	.3590	.5750
.900		.1080	.2280	.2620	.5390

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1431

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR16) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4530	.2380	.1120	.1690	.1950
.050	.1470	-.2890	-.3740	-.4290	-.4770
.150	.0550	-.0980	-.3080	-.4190	-.4260
.300	-.0380	-.1370	-.2640	-.3700	-.3550
.520	-.0720	-.1830	-.2360	-.2570	-.2930
.650	-.3360	-.2180	-.2460	-.2030	-.4200
.775	-.3060	-.2430	-.2150	-.1700	-.3780
.900		-.2330	-.1880	-.1960	-.3560

MACH (1) = 1.555 BETAT (2) = -6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3800	.2550	.2410	.3140	.2730
.050	.2460	-.1930	-.2870	-.3740	-.4050
.150	.1530	-.0180	-.1620	-.3240	-.3230
.300	.0600	-.0570	-.1430	-.2330	-.2510
.520	.0000	-.1180	-.1110	-.1010	-.0920
.650	-.2810	-.1620	-.1140	-.0870	-.2720
.775	-.2850	-.1670	-.1210	-.0490	-.2540
.900		-.1760	-.1290	-.1030	-.2440

MACH (1) = 1.555 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3480	.2880	.3050	.3880	.3120
.050	.1910	-.1660	-.2720	-.3180	-.3320
.150	.1270	.0040	-.1350	-.2390	-.2270
.300	.0510	-.0280	-.0560	-.0890	-.1480
.520	.0220	-.0830	-.0460	-.0360	.0050
.650	-.2660	-.1340	-.0400	.0030	-.2150
.775	-.2710	-.1410	-.0560	.0250	-.1910
.900		-.1650	-.0710	-.0400	-.1920

MACH (1) = 1.555 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4940	.5040	.3440	.3900	.2570
.050	.1010	-.0700	-.1130	-.1180	-.0910
.150	.1010	.0480	.0440	.0290	.0150
.300	.0380	.0050	.0180	.0430	.0590
.520	.0080	-.0330	-.0180	.0050	.0260
.650	-.3140	-.0570	.0320	.0660	-.2240
.775	-.2530	-.1120	.0060	.0650	-.1880
.900		-.1550	-.0230	-.0030	-.2090

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR16)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 4.000

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2750	.3390	.3710	.3820	.2370
.050	.1330	.1860	.1570	.1950	.2140
.150	.0980	.1310	.1600	.1960	.1980
.300	.0450	.0720	.1390	.1790	.1650
.520	.0580	.0620	.0990	.1620	.1450
.650	-.2720	.0160	.1450	.1940	-.1530
.775	-.2240	-.0250	.0940	.1750	-.1190
.900		-.0270	.0700	.0950	-.1560

MACH (1) = 1.555 BETAT (6) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4250	.2630	.3400	.3380	.1830
.050	.1980	.2380	.2410	.3000	.3010
.150	.1480	.1720	.2110	.2690	.2610
.300	.0750	.1100	.1920	.2340	.2110
.520	.0890	.1090	.1460	.1880	.1880
.650	-.2830	.0760	.1680	.2260	-.1220
.775	-.2030	.0140	.1330	.2140	-.0910
.900		-.0230	.1040	.1220	-.1360

MACH (1) = 1.555 BETAT (7) = 8.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3730	.3380	.2870	.2360	.0810
.050	.1570	.2590	.3180	.3870	.3810
.150	.1190	.1890	.2720	.3280	.3110
.300	.0630	.1340	.2540	.2840	.2580
.520	.1010	.1490	.2010	.2440	.2320
.650	-.2750	.1020	.2120	.2700	-.0940
.775	-.1860	.0410	.1710	.2550	-.0690
.900		.0060	.1410	.1540	-.1040

MACH (2) = 2.000 BETAT (1) = -8.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2100	.0690	.1210	.1990	.2400
.050	.0530	-.2110	-.2410	-.2720	-.2770
.150	-.0020	-.2080	-.2500	-.2470	-.2550
.300	-.0540	-.1140	-.2020	-.2400	-.2210
.520	-.0540	-.1360	-.2000	-.2000	-.1880
.650	-.1860	-.1570	-.2100	-.1870	-.2750
.775	-.1970	-.1600	-.2200	-.1610	-.2630
.900		-.1600	-.2030	-.1700	-.2600

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3080	.2550	.2420	.3080	.3070
.050	.1720	-.1560	-.2040	-.2440	-.2410
.150	.0950	-.0380	-.2180	-.2070	-.2030
.300	.0040	-.0830	-.1500	-.1700	-.1660

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1433

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR16)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.0120	-.0910	-.1160	-.1460	-.1350
	.650	-.1620	-.1080	-.1090	-.1300	-.2420
	.775	-.1870	-.1160	-.0990	-.0880	-.2330
	.900		-.1140	-.0920	-.0870	-.2250
MACH (2) = 2.000 BETAT (3) = -4.220	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.0670	.3820	.3400	.3810	.3440
	.050	.1960	-.0920	-.1560	-.1810	-.1750
	.150	.1380	.0000	-.1370	-.1280	-.1230
	.300	.0610	-.0210	-.0560	-.0910	-.0840
	.520	.0290	-.0470	-.0410	-.0570	-.0510
	.650	-.1540	-.0690	-.0250	-.0370	-.1880
	.775	-.1680	-.0840	-.0300	.0250	-.1760
	.900		-.0970	-.0450	.0000	-.1420
MACH (2) = 2.000 BETAT (4) = -.120	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7140	.5710	.4010	.4310	.3310
	.050	.0030	-.0040	-.0170	-.0080	.0060
	.150	.1470	.1000	.0690	.0590	.0640
	.300	.0600	.0750	.1120	.1380	.1420
	.520	.0430	.0200	.0490	.0760	.0840
	.650	-.1730	.0300	.0730	.1220	-.0970
	.775	-.1520	.0000	.0700	.1260	-.0890
	.900		-.0360	.0630	.0770	-.1070
MACH (2) = 2.000 BETAT (5) = 3.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1070	.4260	.4010	.3800	.2560
	.050	.1510	.2730	.2710	.2950	.3040
	.150	.1340	.1910	.2310	.2630	.2740
	.300	.0720	.1210	.1770	.2220	.2270
	.520	.0700	.0710	.1170	.1520	.1390
	.650	-.1560	.0800	.1790	.2210	-.0210
	.775	-.1140	.0520	.1700	.2670	.0010
	.900		.0240	.1480	.1910	-.0330
MACH (2) = 2.000 BETAT (6) = 6.050	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2700	.3200	.3740	.3250	.1920
	.050	.1480	.2950	.3560	.3770	.3690
	.150	.1220	.2040	.2840	.3230	.3290
	.300	.0590	.1380	.2200	.2730	.2770
	.520	.0760	.0910	.1560	.2000	.1880

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR16)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1560	.1100	.2100	.2880	.0200
.775	-.1020	.0820	.1920	.3030	.0350
.900		.0580	.1720	.2240	.0010

MACH (2) = 2.000 BETAT (7) = 8.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1780	.1850	.2870	.2510	.1190
.050	.1190	.3480	.3890	.4350	.4220
.150	.0970	.2550	.3220	.3730	.3700
.300	.0280	.1740	.2620	.3190	.3150
.520	.0590	.1240	.2040	.2730	.2680
.650	-.1620	.1500	.2530	.3300	.0450
.775	-.0910	.1290	.2340	.3400	.0630
.900		.0980	.2120	.2500	.0280

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1435

AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBOR17) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.410

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5650	.5010	.4620	.5700	.5430
.050	-.1060	-.2140	-.3170	-.4050	-.4170
.150	-.0090	-.2000	-.2750	-.3260	-.3380
.300	.0670	-.1700	-.1490	-.2640	-.2360
.520	.0200	-.1110	-.1200	-.2010	-.1550
.650	-.2200	-.1740	-.2260	-.2860	-.3670
.775	-.2310	-.1930	-.1900	-.2250	-.3720
.900		-.1920	-.1850	-.2520	-.3400

MACH (1) = 1.555 BETAT (2) = -6.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6470	.6210	.5550	.6950	.6040
.050	-.0610	-.1540	-.2910	-.3410	-.3490
.150	.2010	-.1170	-.2210	-.2450	-.2440
.300	.1420	-.0280	-.0290	-.1750	-.1460
.520	.0620	.0440	-.0050	-.1110	-.0900
.650	-.1550	-.1110	-.1180	-.1730	-.3110
.775	-.2110	-.1680	-.1020	-.0840	-.3190
.900		-.1590	-.1110	-.1310	-.2380

MACH (1) = 1.555 BETAT (3) = -4.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6890	.7190	.6010	.7250	.6180
.050	.1740	-.1770	-.3170	-.2950	-.2980
.150	.2150	.0210	-.2010	-.1910	-.1880
.300	.1290	.0560	-.1040	-.1300	-.1080
.520	.0700	.0220	.0310	-.0700	-.0570
.650	-.1700	-.1160	-.0940	-.1520	-.2990
.775	-.2170	-.1750	-.0870	-.0470	-.2890
.900		-.1850	-.0960	-.1050	-.1910

MACH (1) = 1.555 BETAT (4) = -1.180

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9280	.8210	.6880	.7630	.5980
.050	.2770	.0080	-.0460	-.0510	-.0320
.150	.3170	.2370	.2270	.2130	.1750
.300	.2330	.1950	.1930	.2380	.2560
.520	.1880	.1310	.1460	.1700	.1800
.650	-.1810	-.0300	.0240	.0560	-.1600
.775	-.1890	-.0960	.0120	.0330	-.1470
.900		-.0830	.0000	-.0390	-.1030

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR17)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6680	.8140	.7080	.7110	.5140
.050	.5960	.4100	.3790	.4570	.4700
.150	.4090	.3660	.4070	.4570	.4170
.300	.3330	.3240	.3660	.4030	.3670
.520	.2910	.2530	.2750	.2730	.2520
.650	-.1190	.0520	.1100	.1350	-.1340
.775	-.1430	-.0100	.1210	.1130	-.0820
.900		.0210	.1020	.0500	-.0870

MACH (1) = 1.555 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4940	.7610	.7140	.6980	.4880
.050	.5640	.5210	.5440	.5880	.5660
.150	.4360	.4290	.5130	.5420	.4860
.300	.3840	.3990	.4590	.4740	.4180
.520	.3630	.3190	.3380	.3240	.2800
.650	-.0820	.0920	.1430	.1630	-.1200
.775	-.1010	.0440	.1730	.1600	-.0390
.900		.0790	.1540	.1060	-.0410

MACH (1) = 1.555 BETAT (7) = 8.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4150	.7050	.6760	.6110	.3960
.050	.6170	.5820	.6640	.6910	.6530
.150	.4850	.5020	.5900	.6020	.5400
.300	.4370	.4910	.5150	.5220	.4550
.520	.4270	.3530	.3680	.3520	.3020
.650	-.0500	.1150	.1650	.1820	-.1150
.775	-.0740	.0810	.2180	.2160	.0050
.900		.1120	.1980	.1460	-.0030

MACH (2) = 2.000 BETAT (1) = -8.380

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5040	.5730	.5640	.7030	.6710
.050	.0130	-.0850	-.1510	-.1750	-.1790
.150	-.0250	-.0840	-.1430	-.1200	-.1140
.300	.0440	-.0860	-.0770	-.0870	-.0590
.520	.0270	-.0920	-.0360	-.0480	-.0120
.650	-.1050	-.1230	-.1110	-.1280	-.1820
.775	-.1590	-.1150	-.0830	-.1110	-.1960
.900		-.1160	-.0710	-.1220	-.1840

MACH (2) = 2.000 BETAT (2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6070	.7210	.6190	.7740	.7190
.050	.0870	-.0610	-.1200	-.1220	-.1170
.150	.2130	-.0320	-.0880	-.0570	-.0440
.300	.1410	.0150	-.0080	-.0190	.0070

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1437

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBCR17)

SECTION (1) RIGHT VERTICAL		DEPENDENT VARIABLE CP				
MACH (2) = 2.000 BETAT (2) = -6.330	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.0990	.0940	.0670	.0290	.0570
	.650	-.0550	-.0080	-.0210	-.0540	-.1410
	.775	-.1260	-.0610	-.0100	-.0290	-.1530
	.900		-.0610	-.0100	-.0510	-.1330
MACH (2) = 2.000 BETAT (3) = -4.280	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7660	.8620	.7200	.8260	.7260
	.050	.2140	.0110	-.0910	-.0570	-.0480
	.150	.2870	.1280	.0100	.0220	.0300
	.300	.2050	.1910	.0690	.0610	.0820
	.520	.1680	.1180	.1380	.0890	.1210
	.650	-.0520	.0220	.0450	.0240	-.1060
	.775	-.0870	-.0260	.0340	.0410	-.1070
	.900		-.0690	.0280	.0470	-.0690
MACH (2) = 2.000 BETAT (4) = -.170	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.9990	.9590	.7700	.8600	.6980
	.050	.3190	.2080	.1270	.1150	.1290
	.150	.4040	.3430	.3240	.2460	.2320
	.300	.2980	.2740	.3010	.3430	.3690
	.520	.2510	.2020	.2210	.2570	.2680
	.650	-.0520	.0860	.1170	.1970	-.0090
	.775	-.0460	.0310	.1150	.1530	-.0160
	.900		-.0080	.1120	.0990	-.0030
MACH (2) = 2.000 BETAT (5) = 3.930	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7110	.9250	.7650	.8110	.6400
	.050	.5390	.5250	.4750	.5010	.5090
	.150	.4480	.4420	.4660	.4980	.4800
	.300	.3470	.3580	.4020	.4550	.4340
	.520	.3240	.2920	.3230	.3440	.3160
	.650	-.0390	.1690	.2200	.2940	.0380
	.775	-.0010	.1150	.2150	.2440	.0350
	.900		.0730	.2090	.1970	.0370
MACH (2) = 2.000 BETAT (6) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.4850	.8190	.7510	.7670	.6000
	.050	.6330	.6210	.6230	.6180	.6300
	.150	.4930	.4910	.5520	.5750	.5580
	.300	.3690	.3910	.4700	.5290	.4970
	.520	.3640	.3450	.3840	.4070	.3590

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR17)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.650	-.0260	.2080	.2840	.3580	.0720
		.775	.0375	.1640	.2750	.3240	.0870
		.900		.1240	.2630	.2630	.0880
MACH (2) = 2.000 BETAT (7) = 8.040		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3510	.7170	.7220	.6870	.5270
		.050	.6710	.6850	.7000	.7250	.7310
		.150	.5130	.5380	.6050	.6490	.6300
		.300	.3740	.4180	.5260	.5890	.5610
		.520	.4060	.3970	.4610	.4880	.4320
		.650	-.0020	.2560	.3240	.4060	.0880
		.775	.0680	.2000	.3380	.3790	.1560
		.900		.1630	.3110	.3130	.1270

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1439

AMES 97-707 IA9 C2A + S3 + T9 RIGHT VERTICAL

(RBOR18) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.340

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4350	.4110	.3850	.4670	.4480
.050	-.0770	-.2660	-.3240	-.4220	-.4330
.150	.0810	-.2570	-.2750	-.3440	-.3590
.300	.0220	-.2150	-.1680	-.2920	-.2690
.520	-.0480	-.0570	-.1480	-.2330	-.2010
.650	-.2400	-.1920	-.2340	-.3080	-.3880
.775	-.2560	-.2200	-.2170	-.2310	-.3960
.900		-.2100	-.2190	-.2530	-.3800

MACH (1) = 1.555 BETAT (2) = -6.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5630	.5400	.4830	.5980	.5080
.050	-.0350	-.1820	-.2980	-.3490	-.3630
.150	.1620	-.1610	-.2140	-.2560	-.2650
.300	.0830	-.0310	-.0640	-.1990	-.1730
.520	.0200	-.0020	-.0390	-.1330	-.1060
.650	-.1840	-.1600	-.1410	-.1710	-.3300
.775	-.2380	-.1930	-.1370	-.1060	-.3230
.900		-.1830	-.1470	-.1510	-.2500

MACH (1) = 1.555 BETAT (3) = -4.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4530	.6450	.5150	.6360	.5170
.050	.2070	-.1830	-.3210	-.3090	-.3090
.150	.1700	-.0480	-.2210	-.2170	-.2100
.300	.0990	.0230	-.1110	-.1580	-.1370
.520	.0040	-.0240	-.0150	-.0990	-.0870
.650	-.1930	-.1760	-.1310	-.1610	-.3090
.775	-.2450	-.1970	-.1290	-.0820	-.2970
.900		-.1980	-.1410	-.1310	-.1590

MACH (1) = 1.555 BETAT (4) = -.160

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8580	.7450	.5850	.6580	.4970
.050	.2420	-.0030	-.0760	-.0780	-.0620
.150	.2580	.1820	.1820	.1580	.1270
.300	.1730	.1290	.1390	.1760	.2040
.520	.1270	.0710	.0920	.1150	.1230
.650	-.2260	-.0750	-.0170	.0230	-.1900
.775	-.2240	-.1300	-.0250	-.0040	-.1770
.900		-.1410	-.0360	-.0660	-.1570

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR18)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.930	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.4460	.7280	.5930	.6010	.4100
	.050	.4190	.3590	.3300	.3860	.3920
	.150	.3320	.3110	.3380	.3740	.3480
	.300	.2520	.2400	.2940	.3410	.3050
	.520	.2100	.1960	.2200	.2260	.1910
	.650	-.1620	.0110	.0710	.1250	-.1550
	.775	-.1750	-.0470	.0790	.0880	-.1020
	.900		-.0290	.0640	.0350	-.1230

MACH (1) = 1.555 BETAT (6) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3730	.6580	.6150	.5890	.3850
	.050	.4710	.4510	.4520	.5150	.5080
	.150	.3510	.3620	.4320	.4690	.4270
	.300	.2760	.3150	.3920	.4110	.3630
	.520	.2770	.2600	.2890	.2830	.2390
	.650	-.1390	.0580	.1060	.1520	-.1410
	.775	-.1350	.0080	.1300	.1330	-.0620
	.900		.0370	.1060	.0910	-.0780

MACH (1) = 1.555 BETAT (7) = 8.020	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2450	.5930	.5690	.5000	.3010
	.050	.5070	.5040	.5700	.6210	.5850
	.150	.3750	.4020	.5130	.5420	.4860
	.300	.3200	.3930	.4480	.4740	.4050
	.520	.3310	.3040	.3200	.3150	.2620
	.650	-.0920	.0820	.1250	.1680	-.1360
	.775	-.1090	.0430	.1720	.1890	-.0190
	.900		.0720	.1510	.1320	-.0370

MACH (2) = 2.000 BETAT (1) = -8.320	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3750	.4720	.4650	.5500	.5700
	.050	-.0500	-.1320	-.1850	-.2070	-.2080
	.150	.0440	-.1340	-.1770	-.1570	-.1530
	.300	.0270	-.1450	-.1260	-.1280	-.1070
	.520	-.0340	-.1100	-.0810	-.0900	-.0610
	.650	-.1530	-.1390	-.1470	-.1580	-.2050
	.775	-.1780	-.1230	-.1300	-.1510	-.2160
	.900		-.1260	-.1170	-.1570	-.2090

MACH (2) = 2.000 BETAT (2) = -6.270	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.4390	.6030	.5230	.6380	.6030
	.050	.0880	-.0960	-.1680	-.1580	-.1540
	.150	.1280	-.0860	-.1290	-.1000	-.0910
	.300	.0910	-.0490	-.0650	-.0660	-.0440

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1441

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR18)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.0300	.0240	.0070	-.0270	.0020
	.650	-.1030	-.0630	-.0660	-.0960	-.1690
	.775	-.1520	-.0950	-.0610	-.0790	-.1810
	.900		-.1000	-.0620	-.0930	-.1660
MACH (2) = 2.000 BETAT (3) = -4.230	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.5210	.7210	.6190	.6980	.6210
	.050	.2170	-.0310	-.1250	-.0940	-.0880
	.150	.2110	.0300	-.0350	-.0240	-.0210
	.300	.1530	.1300	.0190	.0130	.0260
	.520	.0740	.0680	.0770	.0330	.0660
	.650	-.0750	-.0370	-.0050	-.0230	-.1380
	.775	-.1210	-.0830	-.0130	-.0170	-.1330
	.900		-.0800	-.0210	-.0050	-.1120
MACH (2) = 2.000 BETAT (4) = -.160	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.8750	.8470	.6610	.7240	.5900
	.050	.2480	.1670	.0810	.0670	.0820
	.150	.3230	.2760	.2450	.1820	.1760
	.300	.2250	.2030	.2360	.2780	.3030
	.520	.1790	.1340	.1600	.1960	.2040
	.650	-.0870	.0370	.0630	.1400	-.0420
	.775	-.0850	-.0140	.0610	.1040	-.0520
	.900		-.0480	.0530	.0540	-.0460
MACH (2) = 2.000 BETAT (5) = 3.920	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.5090	.7970	.6740	.6870	.5390
	.050	.4290	.4640	.4290	.4310	.4470
	.150	.3540	.3720	.4030	.4220	.4130
	.300	.2650	.2930	.3400	.3810	.3670
	.520	.2390	.2170	.2560	.2840	.2510
	.650	-.0730	.1140	.1640	.2450	.0090
	.775	-.0390	.0720	.1600	.2110	-.0030
	.900		.0350	.1580	.1520	-.0010
MACH (2) = 2.000 BETAT (6) = 5.960	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3830	.6960	.6470	.6410	.4930
	.050	.5290	.5500	.5550	.5520	.5550
	.150	.4130	.4230	.4810	.4960	.4910
	.300	.2890	.3200	.3990	.4400	.4300
	.520	.2810	.2600	.3080	.3400	.2970

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR18)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.650	-.0630	.1580	.2190	.3050	.0360
	.775	.0020	.1220	.2200	.2840	.0530
	.900		.0860	.2140	.2200	.0490
MACH (2) = 2.000 BETAT (7) = 8.010	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2050	.6110	.6430	.5930	.4260
	.050	.5330	.6100	.6250	.6420	.6260
	.150	.4150	.4630	.5330	.5730	.5480
	.300	.2900	.3550	.4480	.5060	.4970
	.520	.3100	.3110	.3760	.4040	.3670
	.650	-.0420	.1980	.2640	.3570	.0680
	.775	.0220	.1510	.2730	.3430	.1260
	.900		.1150	.2630	.2730	.0900

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1443

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR19) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2100	.3390	.3060	.3860	.3750
.050	.0670	-.2970	-.3350	-.4300	-.4410
.150	.0540	-.3080	-.2800	-.3610	-.3730
.300	-.0130	-.0360	-.1940	-.3130	-.2900
.520	-.0730	-.1070	-.1650	-.2550	-.2240
.650	-.2820	-.2490	-.2400	-.3020	-.3990
.775	-.2830	-.2250	-.2400	-.2380	-.4040
.900		-.2320	-.2450	-.2590	-.4060

MACH (1) = 1.555 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4200	.4650	.4170	.5090	.4310
.050	.1650	-.2000	-.2940	-.3550	-.3640
.150	.0900	-.0590	-.2000	-.2680	-.2720
.300	.0450	.0240	-.0770	-.2060	-.1880
.520	-.0160	-.0760	-.0540	-.1410	-.1320
.650	-.2120	-.2150	-.1520	-.0970	-.3320
.775	-.2700	-.1880	-.1640	-.1020	-.2910
.900		-.2120	-.1770	-.1630	-.2210

MACH (1) = 1.555 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3090	.5560	.4380	.5260	.4400
.050	.1750	-.1840	-.3180	-.3290	-.3230
.150	.1040	-.1010	-.2420	-.2420	-.2160
.300	.0470	.0040	-.0770	-.1820	-.1370
.520	-.0180	-.0660	-.0570	-.0920	-.0750
.650	-.2310	-.2210	-.1410	-.0230	-.2910
.775	-.2690	-.2050	-.1110	-.0380	-.2160
.900		-.2180	-.1200	-.1060	-.1570

MACH (1) = 1.555 BETAT (4) = -.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7150	.6660	.5020	.5660	.4150
.050	.1920	-.0320	-.0760	-.0830	-.0460
.150	.1940	.1410	.1410	.1140	.1160
.300	.1260	.0860	.0980	.1310	.1440
.520	.0780	.0280	.0510	.0670	.0740
.650	-.2530	-.1040	-.0540	-.0020	-.2190
.775	-.2460	-.1520	-.0550	-.0330	-.2020
.900		-.1830	-.0620	-.0840	-.1930

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR19)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3140	.6380	.5060	.5150	.3420
	.050	.3090	.3120	.2690	.3230	.3440
	.150	.2460	.2470	.2660	.3160	.3020
	.300	.1760	.1760	.2350	.2810	.2610
	.520	.1450	.1380	.1780	.1970	.1650
	.650	-.1920	-.0250	.0370	.0960	-.1750
	.775	-.1980	-.0730	.0440	.0640	-.1250
	.900		-.0560	.0290	.0160	-.1420

MACH (1) = 1.555 BETAT (6) = 5.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3400	.5760	.5230	.5020	.3220
	.050	.2950	.3630	.3700	.4280	.4240
	.150	.2330	.2860	.3460	.3960	.3570
	.300	.1790	.2340	.3170	.3500	.3000
	.520	.1720	.1870	.2290	.2340	.1960
	.650	-.1560	.0120	.0640	.1190	-.1660
	.775	-.1750	-.0330	.0880	.1050	-.0920
	.900		-.0070	.0660	.0640	-.1120

MACH (1) = 1.555 BETAT (7) = 8.040	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1690	.4790	.4640	.4020	.2280
	.050	.3610	.4020	.4760	.5370	.5130
	.150	.2730	.3080	.4270	.4650	.4110
	.300	.2110	.2810	.3750	.3990	.3420
	.520	.2270	.2290	.2680	.2640	.2110
	.650	-.1350	.0330	.0800	.1310	-.1640
	.775	-.1560	-.0010	.1220	.1520	-.0550
	.900		.0250	.1010	.1060	-.0760

MACH (2) = 2.000 BETAT (1) = -8.300	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1120	.3390	.3410	.4160	.4470
	.050	.0240	-.1590	-.2060	-.2340	-.2370
	.150	.0450	-.1730	-.2050	-.1940	-.1930
	.300	-.0330	-.1790	-.1570	-.1670	-.1500
	.520	-.0730	-.1240	-.1220	-.1330	-.1100
	.650	-.1970	-.1710	-.1760	-.1900	-.2280
	.775	-.1950	-.1630	-.1730	-.1900	-.2420
	.900		-.1680	-.1690	-.1910	-.2390

MACH (2) = 2.000 BETAT (2) = -6.260	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2760	.4960	.4180	.5080	.4910
	.050	.0430	-.1470	-.1990	-.1920	-.1590
	.150	.0950	-.1440	-.1660	-.1450	-.1340

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1445

AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBOR19)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0250	-.0190	-.0550	-.0790	-.0480
.650	-.1570	-.1120	-.1120	-.1420	-.2000
.775	-.1650	-.1270	-.1000	-.1290	-.2110
.900		-.1320	-.1000	-.1350	-.2000

MACH (2) = 2.000 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3060	.5990	.5070	.5740	.5210
.050	.1700	-.0900	-.1550	-.1280	-.1220
.150	.1370	-.0530	-.0770	-.0690	-.0650
.300	.0790	.0740	-.0320	-.0330	-.0230
.520	.0260	.0120	.0250	-.0140	.0140
.650	-.1160	-.0940	-.0490	-.0550	-.1680
.775	-.1510	-.1080	-.0570	-.0570	-.1630
.900		-.1150	-.0640	-.0500	-.1410

MACH (2) = 2.000 BETAT (4) = -.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7330	.7420	.5580	.6090	.4950
.050	.2250	.1410	.0720	.0550	.0700
.150	.2510	.2240	.2070	.1560	.1530
.300	.1650	.1510	.1850	.2250	.2390
.520	.1240	.0880	.1200	.1520	.1560
.650	-.1140	.0010	.0300	.1060	-.0720
.775	-.1150	-.0420	.0260	.0720	-.0860
.900		-.0720	.0210	.0240	-.0850

MACH (2) = 2.000 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2590	.6680	.5710	.5810	.4390
.050	.3260	.3960	.3910	.3900	.4000
.150	.2700	.3080	.3460	.3670	.3610
.300	.1930	.2300	.2890	.3200	.3110
.520	.1680	.1560	.2030	.2290	.2060
.650	-.0990	.0660	.1230	.2000	-.0160
.775	-.0730	.0300	.1160	.1800	-.0260
.900		.0010	.1160	.1190	-.0250

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1910	.5900	.5600	.5350	.3800
.050	.3760	.4780	.4920	.4930	.4820
.150	.3010	.3540	.4160	.4330	.4240
.300	.2100	.2600	.3390	.3790	.3730
.520	.2000	.1970	.2490	.2760	.2500

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR19)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.0850	.1090	.1600	.2510	.0070
.775	-.0440	.0700	.1680	.2390	.0330
.900		.0370	.1670	.1790	.0160

MACH (2) = 2.000 BETAT (7) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0450	.4850	.5250	.4640	.3100
.050	.4260	.5250	.5520	.5720	.5490
.150	.3270	.3900	.4590	.5010	.4710
.300	.2120	.2840	.3780	.4380	.4110
.520	.2200	.2240	.2990	.3340	.2950
.650	-.0780	.1400	.2040	.2940	.0410
.775	-.0180	.1080	.2220	.2890	.0920
.900		.0730	.2130	.2220	.0600

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1447

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR20) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2240	.2530	.2180	.2740	.2900
.050	.1780	-.3020	-.3580	-.4420	-.4620
.150	.0820	-.1800	-.2980	-.3860	-.4010
.300	-.0090	-.0950	-.2220	-.3460	-.3250
.520	-.0740	-.1540	-.2050	-.2890	-.2530
.650	-.3090	-.2610	-.2710	-.3000	-.4180
.775	-.3080	-.2490	-.2710	-.2630	-.4210
.900		-.2620	-.2780	-.2740	-.4100

MACH (1) = 1.555 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2970	.3490	.3440	.4190	.3660
.050	.1270	-.1990	-.3060	-.3710	-.3780
.150	.1090	-.0190	-.2040	-.2880	-.2940
.300	.0560	-.0310	-.1050	-.2360	-.2180
.520	.0010	-.1050	-.0920	-.1230	-.1490
.650	-.2240	-.2010	-.1780	-.1290	-.3460
.775	-.2680	-.1900	-.1990	-.1450	-.2760
.900		-.2290	-.2130	-.1900	-.2530

MACH (1) = 1.555 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2460	.4660	.3670	.4700	.3890
.050	.1990	-.1990	-.2980	-.3160	-.3120
.150	.1120	-.0140	-.1930	-.2160	-.2100
.300	.0250	-.0160	-.0260	-.1430	-.1340
.520	-.0080	-.0710	-.0280	-.0100	.0110
.650	-.2230	-.2060	-.1300	-.0840	-.2370
.775	-.2640	-.1820	-.1390	-.0970	-.2240
.900		-.2060	-.1540	-.1340	-.2030

MACH (1) = 1.555 BETAT (4) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6000	.5880	.4210	.4710	.3360
.050	.1230	-.0520	-.1080	-.1060	-.0810
.150	.1400	.0950	.0880	.0720	.0260
.300	.0750	.0410	.0550	.0840	.0930
.520	.0290	-.0080	.0100	.0240	.0310
.650	-.2850	-.1280	-.0920	-.0470	-.2510
.775	-.2480	-.1760	-.0880	-.0670	-.2240
.900		-.2120	-.0970	-.1070	-.2210

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR20)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.960	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2450	.5460	.4330	.4650	.3040
	.050	.1610	.2290	.2100	.2440	.2560
	.150	.1310	.1780	.2190	.2520	.2400
	.300	.0830	.1200	.1820	.2250	.2030
	.520	.0620	.0790	.1290	.1500	.1280
	.650	-.2170	-.0690	-.0030	.0520	-.2040
	.775	-.2210	-.1150	.0020	.0350	-.1520
	.900		-.0930	-.0120	-.0170	-.1730

MACH (1) = 1.555 BETAT (6) = 6.010	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1290	.3790	.4370	.4340	.2650
	.050	.2180	.2430	.2920	.3390	.3580
	.150	.1560	.1880	.2710	.3190	.2960
	.300	.1070	.1630	.2460	.2770	.2460
	.520	.1050	.1100	.1630	.1870	.1430
	.650	-.1750	-.0420	.0170	.0840	-.1880
	.775	-.2020	-.0610	.0370	.0690	-.1210
	.900		-.0450	.0260	.0300	-.1430

MACH (1) = 1.555 BETAT (7) = 8.080	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2900	.3880	.3850	.3290	.1590
	.050	.2010	.3130	.3870	.4610	.4430
	.150	.1710	.2380	.3450	.3900	.3540
	.300	.1360	.2040	.3080	.3400	.2930
	.520	.1550	.1700	.2140	.2190	.1660
	.650	-.1360	-.0100	.0410	.0980	-.1810
	.775	-.1760	.0040	.0840	.1250	-.0800
	.900		.0050	.0790	.0760	-.0970

MACH (2) = 2.000 BETAT (1) = -8.280	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1750	.2450	.2430	.3240	.3480
	.050	.0730	-.1920	-.2280	-.2580	-.2620
	.150	.0170	-.2190	-.2290	-.2300	-.2270
	.300	-.0370	-.1100	-.1830	-.2060	-.1900
	.520	-.0710	-.1240	-.1520	-.1730	-.1530
	.650	-.2080	-.1800	-.1960	-.2210	-.2510
	.775	-.2070	-.1820	-.1990	-.2230	-.2620
	.900		-.1840	-.1990	-.2220	-.2630

MACH (2) = 2.000 BETAT (2) = -6.240	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1340	.3760	.3290	.3910	.3910
	.050	.0580	-.1600	-.1930	-.2190	-.2170
	.150	.0570	-.1770	-.1910	-.1780	-.1710

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1449

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR20)

SECTION (1) RIGHT VERTICAL		DEPENDENT VARIABLE CP				
MACH (2) = 2.000 BETAT (2) = -6.240	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	-.0160	-.0700	-.0940	-.1140	-.0930
	.650	-.1670	-.1470	-.1360	-.1620	-.2200
	.775	-.1800	-.1340	-.1310	-.1530	-.2250
	.900		-.1450	-.1300	-.1570	-.2160
MACH (2) = 2.000 BETAT (3) = -4.200	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1940	.5050	.4200	.4640	.4230
	.050	.1690	-.1060	-.1560	-.1600	-.1520
	.150	.1230	-.0400	-.1040	-.1040	-.0970
	.300	.0540	.0170	-.0500	-.0620	-.0570
	.520	.0180	-.0310	-.0130	-.0370	-.0230
	.650	-.1350	-.1150	-.0790	-.0660	-.1800
	.775	-.1600	-.1120	-.0840	-.0600	-.1750
	.900		-.1310	-.0920	-.0670	-.1540
MACH (2) = 2.000 BETAT (4) = -.130	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7140	.6450	.4810	.5200	.4160
	.050	.0800	.0730	.0300	.0280	.0450
	.150	.1900	.1830	.1520	.1120	.1100
	.300	.1160	.1150	.1490	.1780	.1920
	.520	.0810	.0490	.0820	.1140	.1180
	.650	-.1570	-.0270	-.0020	.0730	-.0930
	.775	-.1330	-.0580	-.0030	.0450	-.1020
	.900		-.0910	-.0060	-.0020	-.1060
MACH (2) = 2.000 BETAT (5) = 3.950	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1660	.5590	.4800	.4630	.3330
	.050	.2190	.3210	.3250	.3380	.3470
	.150	.2010	.2410	.2850	.3100	.3030
	.300	.1380	.1710	.2290	.2670	.2640
	.520	.1130	.1100	.1520	.1890	.1680
	.650	-.0900	.0220	.0760	.1670	-.0400
	.775	-.0980	-.0180	.0790	.1510	-.0350
	.900		-.0150	.0810	.0880	-.0510
MACH (2) = 2.000 BETAT (6) = 5.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.0840	.4580	.4560	.4100	.2720
	.050	.3470	.4060	.4310	.4330	.4200
	.150	.2680	.2900	.3540	.3760	.3630
	.300	.1510	.1940	.2780	.3230	.3160
	.520	.1330	.1270	.1900	.2290	.2030

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR20)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.650	-.1150	.0610	.1050	.2090	-.0150
		.775	-.0630	.0440	.1260	.1970	.0090
		.900		.0160	.1350	.1420	-.0130
MACH (2) = 2.000 BETAT (7) = 8.040		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1260	.3670	.4220	.3790	.2160
		.050	.2610	.4080	.4570	.5090	.4930
		.150	.2080	.2810	.3790	.4400	.4160
		.300	.1050	.1910	.3120	.3790	.3620
		.520	.1410	.1720	.2560	.2930	.2530
		.650	-.1220	.0860	.1630	.2510	.0120
		.775	-.0620	.0630	.1670	.2400	.0570
		.900		.0360	.1580	.1740	.0250

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1451

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR21) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3050	.2280	.1610	.2210	.2370
.050	.1700	-.3210	-.3650	-.4350	-.4710
.150	.0730	-.1680	-.2990	-.4050	-.4160
.300	-.0200	-.1160	-.2420	-.3610	-.3430
.520	-.0740	-.1710	-.2350	-.2930	-.2750
.650	-.3170	-.2690	-.2880	-.2850	-.4250
.775	-.3130	-.2590	-.2890	-.2630	-.4270
.900		-.2670	-.2870	-.2790	-.3960

MACH (1) = 1.555 BETAT (2) = -6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3710	.3170	.2940	.3690	.3210
.050	.1780	-.2000	-.2940	-.3790	-.3910
.150	.1310	-.0130	-.1830	-.3050	-.3140
.300	.0620	-.0330	-.1280	-.2560	-.2350
.520	-.0030	-.1120	-.1120	-.1030	-.1200
.650	-.2330	-.2150	-.1920	-.1660	-.3400
.775	-.2830	-.1970	-.2140	-.1640	-.2810
.900		-.2280	-.2190	-.1980	-.2710

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2700	.3640	.3440	.4320	.3550
.050	.1780	-.1710	-.2730	-.3200	-.3180
.150	.1060	.0130	-.1430	-.2220	-.2110
.300	.0440	-.0130	-.0420	-.1110	-.1400
.520	-.0080	-.0930	-.0500	-.0320	.0010
.650	-.2140	-.2010	-.1480	-.1030	-.2330
.775	-.2650	-.1840	-.1630	-.1200	-.2450
.900		-.2120	-.1730	-.1570	-.2260

MACH (1) = 1.555 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5500	.5480	.3860	.4300	.2930
.050	.0930	-.0830	-.1160	-.1210	-.0970
.150	.1120	.0600	.0610	.0380	.0230
.300	.0510	.0180	.0270	.0570	.0690
.520	.0140	-.0260	-.0110	.0010	.0090
.650	-.2920	-.1470	-.1040	-.0600	-.2610
.775	-.2470	-.1950	-.1040	-.0820	-.2330
.900		-.2170	-.1150	-.1180	-.2370

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR21)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 3.980	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2090	.4760	.4060	.4300	.2770
		.050	.1160	.1950	.1760	.2140	.2300
		.150	.1000	.1410	.1840	.2250	.2140
		.300	.0590	.0960	.1600	.2050	.1830
		.520	.0420	.0580	.1120	.1340	.1100
		.650	-.1720	-.0850	-.0150	.0400	-.2110
		.775	-.2170	-.1130	-.0130	.0240	-.1630
		.900		-.0880	-.0250	-.0270	-.1840

MACH (1) = 1.555	BETAT (6) = 6.040	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2820	.3130	.3900	.3930	.2280
		.050	.2110	.2160	.2610	.3290	.3250
		.150	.1500	.1700	.2410	.2950	.2730
		.300	.0930	.1320	.2200	.2560	.2270
		.520	.0930	.1080	.1440	.1620	.1210
		.650	-.2320	-.0460	-.0070	.0670	-.1990
		.775	-.2110	-.0760	.0230	.0550	-.1360
		.900		-.0530	.0110	.0200	-.1550

MACH (1) = 1.555	BETAT (7) = 8.110	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3750	.3710	.3330	.2770	.1170
		.050	.2050	.3120	.3470	.4280	.4080
		.150	.1610	.2540	.3070	.3670	.3260
		.300	.1040	.1700	.2850	.3100	.2670
		.520	.1340	.1660	.1910	.1950	.1370
		.650	-.2260	-.0030	.0370	.0760	-.1880
		.775	-.1900	-.0410	.0730	.1310	-.0700
		.900		-.0370	.0520	.0660	-.1060

MACH (2) = 2.000	BETAT (1) = -8.310	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1730	.1540	.1800	.2610	.2960
		.050	.0990	-.1870	-.2300	-.2710	-.2740
		.150	.0200	-.2170	-.2420	-.2400	-.2430
		.300	-.0400	-.1120	-.1810	-.2150	-.2080
		.520	-.0580	-.1320	-.1800	-.1940	-.1710
		.650	-.2030	-.1870	-.2130	-.2290	-.2630
		.775	-.2060	-.1810	-.2120	-.2370	-.2700
		.900		-.1840	-.2120	-.2260	-.2750

MACH (2) = 2.000	BETAT (2) = -6.260	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2310	.3080	.2840	.3520	.3450
		.050	.0760	-.1700	-.2040	-.2330	-.2310
		.150	.0680	-.1470	-.2050	-.1960	-.1880
		.300	.0090	-.0750	-.1510	-.1670	-.1500

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1453

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR21)

SECTION (1) RIGHT VERTICAL		DEPENDENT VARIABLE CP				
MACH (2) = 2.000	BETAT (2) = -6.260	Z/BV	.158	.316	.600	.840
		X/CV				.925
		.520	.0010	-.0840	-.1080	-.1340
		.650	-.1690	-.1410	-.1450	-.1780
		.775	-.1870	-.1360	-.1410	-.1730
		.900		-.1470	-.1400	-.1710
						-.2350
MACH (2) = 2.000	BETAT (3) = -4.210	Z/BV	.158	.316	.600	.840
		X/CV				.925
		.000	.1150	.4670	.3900	.4230
		.050	.1840	-.1000	-.1470	-.1700
		.150	.1340	.0030	-.1210	-.1150
		.300	.0560	-.0050	-.0540	-.0760
		.520	.0200	-.0410	-.0230	-.0460
MACH (2) = 2.000	BETAT (4) = -.120	Z/BV	.158	.316	.600	.840
		X/CV				.925
		.000	.7280	.6070	.4310	.4720
		.050	.0310	.0420	.0120	.0100
		.150	.1690	.1510	.1150	.0890
		.300	.0880	.0950	.1280	.1560
		.520	.0560	.0340	.0660	.0950
MACH (2) = 2.000	BETAT (5) = 3.970	Z/BV	.158	.316	.600	.840
		X/CV				.925
		.000	.1280	.5030	.4480	.4150
		.050	.1810	.2950	.3040	.3210
		.150	.1740	.2190	.2640	.2910
		.300	.1150	.1500	.2110	.2530
		.520	.0940	.0860	.1320	.1730
MACH (2) = 2.000	BETAT (6) = 6.020	Z/BV	.158	.316	.600	.840
		X/CV				.925
		.000	.1640	.3950	.4100	.3730
		.050	.2860	.3570	.3880	.4140
		.150	.2210	.2440	.3150	.3530
		.300	.1080	.1550	.2480	.3010
		.520	.1090	.1150	.1730	.2110

AMES 97-757 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBOR21)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.020	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.650	-.1270	.0460	.1090	.2040	-.0180
	.775	-.0780	.0260	.1050	.1860	.0090
	.900		.0000	.1110	.1260	-.0170
MACH (2) = 2.000 BETAT (7) = 8.070	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1400	.2740	.3500	.3090	.1750
	.050	.1540	.3470	.4250	.4700	.4580
	.150	.1320	.2510	.3490	.4070	.3880
	.300	.0600	.1710	.2830	.3480	.3370
	.520	.0940	.1390	.2210	.2600	.2550
	.650	-.1440	.0620	.1280	.2260	-.0040
	.775	-.0760	.0520	.1360	.2140	.0380
	.900		.0280	.1350	.1500	.0060

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1455

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR22) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDDL = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4390	.2340	.1020	.1660	.1900
.050	.1270	-.2930	-.3780	-.4300	-.4800
.150	.0530	-.1030	-.3130	-.4210	-.4290
.300	-.0410	-.1410	-.2690	-.3710	-.3580
.520	-.0820	-.1850	-.2510	-.2780	-.2980
.650	-.3400	-.2840	-.2920	-.2990	-.4320
.775	-.3140	-.2950	-.2860	-.2670	-.4270
.900		-.2810	-.2740	-.2800	-.3990

MACH (1) = 1.555 BETAT (2) = -6.310

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3830	.2480	.2370	.3100	.2730
.050	.2500	-.2110	-.2860	-.3810	-.4090
.150	.1490	-.0190	-.1650	-.3250	-.3310
.300	.0580	-.0580	-.1570	-.2380	-.2550
.520	-.0060	-.1220	-.1250	-.1230	-.1010
.650	-.2830	-.2310	-.2020	-.1910	-.3220
.775	-.2890	-.2150	-.2230	-.1880	-.2990
.900		-.2250	-.2220	-.2090	-.2830

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3470	.2890	.3040	.3810	.3100
.050	.1990	-.1660	-.2680	-.3230	-.3350
.150	.1300	.0000	-.1320	-.2380	-.2310
.300	.0580	-.0270	-.0630	-.0800	-.1520
.520	.0110	-.0890	-.0570	-.0490	-.0180
.650	-.2680	-.2030	-.1540	-.1090	-.2470
.775	-.2710	-.1860	-.1740	-.1310	-.2520
.900		-.2130	-.1720	-.1660	-.2410

MACH (1) = 1.555 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4930	.5070	.3500	.3850	.2580
.050	.1030	-.0770	-.1240	-.1260	-.1080
.150	.1030	.0460	.0450	.0110	.0150
.300	.0390	.0010	.0130	.0390	.0510
.520	.0010	-.0370	-.0250	-.0120	-.0050
.650	-.3150	-.1580	-.1160	-.0690	-.2700
.775	-.2550	-.1930	-.1170	-.0900	-.2410
.900		-.2270	-.1270	-.1290	-.2480

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBCR22)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 3.940	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2820	.3570	.3660	.3850	.2370
		.050	.1440	.1830	.1620	.1910	.2100
		.150	.1010	.1280	.1570	.1940	.1870
		.300	.0420	.0630	.1330	.1800	.1580
		.520	.0460	.0510	.0910	.1100	.0910
		.650	-.2770	-.0900	-.0410	.0240	-.2230
		.775	-.2280	-.1150	-.0270	.0060	-.1810
		.900		-.1140	-.0400	-.0410	-.2030

MACH (1) = 1.555	BETAT (6) = 6.060	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.4130	.3650	.3400	.3390	.1850
		.050	.1600	.2270	.2340	.2950	.3020
		.150	.1180	.1690	.2030	.2700	.2410
		.300	.0590	.1050	.1910	.2300	.1980
		.520	.0710	.1050	.1310	.1360	.0970
		.650	-.2900	-.0420	-.0220	.0460	-.2140
		.775	-.2100	-.0840	.0170	.0530	-.1490
		.900		-.1190	.0000	.0120	-.1560

MACH (1) = 1.555	BETAT (7) = 8.120	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3820	.3380	.2870	.2250	.0770
		.050	.1590	.2570	.3140	.3860	.3730
		.150	.1200	.1880	.2730	.3280	.2940
		.300	.0570	.1290	.2550	.2790	.2390
		.520	.0910	.1390	.1730	.1760	.1090
		.650	-.2770	-.0190	.0140	.0770	-.2040
		.775	-.1910	-.0590	.0500	.1160	-.0910
		.900		-.0910	.0350	.0490	-.1220

MACH (2) = 2.000	BETAT (1) = -8.330	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2080	.0820	.1240	.1990	.2420
		.050	.0470	-.2090	-.2360	-.2690	-.2760
		.150	-.0060	-.2060	-.2470	-.2410	-.2490
		.300	-.0520	-.1070	-.1960	-.2300	-.2170
		.520	-.0530	-.1330	-.2000	-.2110	-.1870
		.650	-.1810	-.1910	-.2220	-.2190	-.2680
		.775	-.1960	-.1780	-.2310	-.2180	-.2740
		.900		-.1820	-.2280	-.2210	-.2760

MACH (2) = 2.000	BETAT (2) = -6.280	Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2770	.2490	.2380	.3050	.3060
		.050	.1770	-.1550	-.2010	-.2400	-.2410
		.150	.0970	-.0340	-.2140	-.2050	-.2000
		.300	.0100	-.0840	-.1470	-.1690	-.1630

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1457

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBCR22)

SECTION (1)RIGHT VERTICAL		DEPENDENT VARIABLE CP				
MACH (2) = 2.000 BETAT (2) = -6.280	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.0100	-.0950	-.1210	-.1510	-.1320
	.650	-.1620	-.1470	-.1470	-.1770	-.2410
	.775	-.1850	-.1400	-.1470	-.1710	-.2410
	.900		-.1430	-.1430	-.1570	-.2380
MACH (2) = 2.000 BETAT (3) = -4.220	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.0720	.3880	.3450	.3840	.3420
	.050	.1960	-.0900	-.1440	-.1780	-.1740
	.150	.1380	.0050	-.1380	-.1270	-.1230
	.300	.0620	-.0180	-.0580	-.0880	-.0820
	.520	.0240	-.0530	-.0390	-.0570	-.0490
MACH (2) = 2.000 BETAT (4) = -.110	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7120	.5730	.3990	.4290	.3340
	.050	.0000	.0010	-.0090	-.0010	.0110
	.150	.1400	.1050	.0770	.0670	.0730
	.300	.0620	.0760	.1130	.1380	.1440
	.520	.0410	.0230	.0530	.0790	.0820
MACH (2) = 2.000 BETAT (5) = 4.000	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1020	.4250	.4000	.3840	.2560
	.050	.1480	.2730	.2750	.2980	.3040
	.150	.1300	.1930	.2340	.2660	.2660
	.300	.0730	.1220	.1820	.2230	.2290
	.520	.0690	.0750	.1200	.1500	.1360
MACH (2) = 2.000 BETAT (6) = 6.050	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2680	.3210	.3700	.3260	.1910
	.050	.1360	.2930	.3560	.3790	.3720
	.150	.1160	.2040	.2850	.3240	.3140
	.300	.0560	.1360	.2210	.2750	.2740
	.520	.0690	.0920	.1550	.1970	.1770

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR22)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.650	-.1580	.0250	.0800	.1750	-.0310
		.775	-.1060	.0080	.0820	.1600	-.0060
		.900		-.0140	.0840	.1070	-.0310
MACH (2) = 2.000 BETAT (7) = 8.110		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1760	.1870	.2840	.2490	.1180
		.050	.1110	.3400	.3870	.4340	.4200
		.150	.0920	.2540	.3210	.3720	.3560
		.300	.0280	.1740	.2590	.3180	.3110
		.520	.0530	.1250	.1970	.2420	.2130
		.650	-.1640	.0570	.1060	.1970	-.0220
		.775	-.0930	.0430	.1290	.1970	.0210
		.900		.0150	.1220	.1460	.0050

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1459

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR23) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 CRBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.400

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5630	.5050	.4700	.5820	.5510
.050	-.1160	-.2160	-.3200	-.4020	-.4130
.150	-.0100	-.2090	-.2760	-.3220	-.3310
.300	.0680	-.1740	-.1470	-.2620	-.2370
.520	.0060	-.0980	-.1180	-.1980	-.1720
.650	-.2280	-.4430	-.4820	-.3250	-.3720
.775	-.2380	-.4540	-.4350	-.3140	-.3600
.900		-.3910	-.4040	-.3180	-.3370

MACH (1) = 1.555 BETAT (2) = -6.360

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6390	.6200	.5630	.7030	.6050
.050	-.0510	-.1530	-.2900	-.3370	-.3410
.150	.2030	-.1230	-.2080	-.2360	-.2320
.300	.1390	-.0250	-.0220	-.1710	-.1440
.520	.0490	.0420	.0140	-.0920	-.0860
.650	-.1520	-.4480	-.4760	-.4800	-.3120
.775	-.2160	-.4460	-.4700	-.3950	-.3600
.900		-.3760	-.3730	-.3290	-.3490

MACH (1) = 1.555 BETAT (3) = -4.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6820	.7250	.6030	.7230	.6160
.050	.1620	-.1600	-.3120	-.2870	-.2850
.150	.2140	.0100	-.1960	-.1840	-.1800
.300	.1280	.0580	-.0940	-.1230	-.1080
.520	.0590	.0260	.0590	-.0500	-.0460
.650	-.1690	-.4460	-.4670	-.4800	-.2940
.775	-.2230	-.4510	-.4730	-.4760	-.3490
.900		-.3970	-.3800	-.4430	-.3270

MACH (1) = 1.555 BETAT (4) = -1.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9310	.8200	.6830	.7560	.5910
.050	.2800	.0360	-.0360	-.0360	-.0230
.150	.3170	.2420	.2340	.2520	.2060
.300	.2310	.1890	.2020	.2390	.2390
.520	.1660	.1300	.1670	.2340	.2540
.650	-.1850	-.4200	-.4250	-.4350	-.1940
.775	-.1940	-.4130	-.4400	-.4360	-.2650
.900		-.3690	-.4230	-.4320	-.2710

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR23)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6350	.8070	.7080	.7080	.5120
.050	.5090	.4160	.4070	.4690	.4740
.150	.4070	.3680	.4120	.4580	.4170
.300	.3340	.3210	.3730	.4160	.3580
.520	.2740	.2590	.2970	.3370	.3420
.650	-.1200	-.3950	-.4090	-.4220	-.1930
.775	-.1400	-.3730	-.4070	-.4100	-.2480
.900		-.3010	-.4050	-.4030	-.2650

MACH (1) = 1.555 BETAT (6) = 8.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3860	.6960	.6690	.6080	.3900
.050	.6130	.5780	.6660	.7000	.6600
.150	.4800	.5040	.5930	.6130	.5450
.300	.4310	.4920	.5220	.5340	.4580
.520	.4090	.3570	.3890	.4070	.3960
.650	-.0510	-.3710	-.4000	-.4130	-.1880
.775	-.0730	-.3270	-.3850	-.3910	-.2210
.900		-.2130	-.3770	-.3810	-.2300

MACH (2) = 2.000 BETAT (1) = -8.380

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5110	.5680	.5700	.7000	.6700
.050	.0120	-.0860	-.1520	-.1780	-.1800
.150	-.0260	-.0890	-.1420	-.1200	-.1150
.300	.0460	-.0860	-.0730	-.0860	-.0610
.520	.0200	-.0890	-.0200	-.0330	-.0330
.650	-.1060	-.2540	-.2550	-.1600	-.1900
.775	-.1600	-.2570	-.2440	-.1500	-.1830
.900		-.2180	-.2190	-.1520	-.1840

MACH (2) = 2.000 BETAT (2) = -6.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.6050	.7170	.6210	.7790	.7230
.050	.0580	-.0710	-.1270	-.1270	-.1220
.150	.2170	-.0400	-.0900	-.0580	-.0450
.300	.1370	.0120	-.0160	-.0200	.0030
.520	.0930	.0980	.0880	.0390	.0320
.650	-.0570	-.2600	-.2690	-.2820	-.1510
.775	-.1310	-.2680	-.2730	-.2330	-.1830
.900		-.2420	-.2300	-.1930	-.1840

MACH (2) = 2.000 BETAT (3) = -4.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7690	.8570	.7180	.8250	.7260
.050	.2200	.0130	-.0920	-.0580	-.0470
.150	.2860	.1210	.0090	.0190	.0310
.300	.2080	.1860	.0700	.0630	.0790

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1461

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR23)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.1570	.1200	.1530	.1170	.1050
.650	-.0500	-.2410	-.2450	-.2650	-.1190
.775	-.0880	-.2570	-.2660	-.2760	-.1460
.900		-.2340	-.2410	-.2530	-.1430

MACH (2) = 2.000 BETAT (4) = -.170

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.9990	.9580	.7680	.8560	.6930
.050	.3190	.2130	.1260	.1160	.1240
.150	.4050	.3460	.3290	.2440	.2370
.300	.2970	.2760	.3000	.3440	.3500
.520	.2380	.2020	.2280	.2760	.3040
.650	-.0530	-.2260	-.2300	-.2300	-.0380
.775	-.0450	-.2350	-.2450	-.2340	-.0940
.900		-.2180	-.2280	-.2310	-.1120

MACH (2) = 2.000 BETAT (5) = 3.930

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7370	.9250	.7650	.8130	.6360
.050	.5380	.5220	.4740	.4940	.5110
.150	.4470	.4420	.4660	.5030	.4830
.300	.3480	.3580	.4080	.4590	.4240
.520	.3050	.2920	.3320	.3570	.3670
.650	-.0410	-.2080	-.2080	-.2120	-.0020
.775	-.0010	-.2130	-.2100	-.2080	-.0670
.900		-.1890	-.2100	-.2010	-.0870

MACH (2) = 2.000 BETAT (6) = 5.980

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4880	.8210	.7500	.7660	.5950
.050	.6300	.6180	.6210	.6260	.6330
.150	.4910	.4920	.5510	.5790	.5610
.300	.3660	.3890	.4680	.5260	.4870
.520	.3440	.3390	.3890	.4370	.4430
.650	-.0280	-.1920	-.1950	-.2010	.0120
.775	.0350	-.1860	-.1960	-.1910	-.0490
.900		-.1620	-.1960	-.1880	-.0680

MACH (2) = 2.000 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3420	.7170	.7110	.6840	.5160
.050	.6640	.6840	.7050	.7250	.7320
.150	.5110	.5380	.6080	.6510	.6350
.300	.3720	.4200	.5260	.5920	.5560
.520	.3830	.3950	.4650	.5490	.5310

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR23)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	.0000	-.1780	-.1830	-.1920	.0050
.775	.0650	-.1670	-.1810	-.1750	-.0340
.900		-.1330	-.1790	-.1680	-.0470

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1463

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR24) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4340	.4110	.3890	.4830	.4510
.050	-.0700	-.2590	-.3250	-.4160	-.4280
.150	.0760	-.2590	-.2630	-.3400	-.3540
.300	.0230	-.2120	-.1660	-.2890	-.2620
.520	-.0630	-.0470	-.1430	-.2220	-.2050
.650	-.2380	-.4740	-.5000	-.3640	-.3900
.775	-.2550	-.4570	-.4730	-.3420	-.3820
.900		-.3670	-.4080	-.3390	-.3690

MACH (1) = 1.555 BETAT (2) = -6.290

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5580	.5420	.4920	.6530	.5090
.050	-.0500	-.1700	-.2940	-.3460	-.3550
.150	.1670	-.1560	-.2080	-.2540	-.2560
.300	.0930	-.0300	-.0640	-.1880	-.1650
.520	.0120	-.0010	-.0180	-.1120	-.1080
.650	-.1820	-.4620	-.4690	-.4850	-.3260
.775	-.2370	-.4450	-.4730	-.4030	-.3750
.900		-.3650	-.3690	-.3340	-.3580

MACH (1) = 1.555 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4550	.6430	.5110	.6300	.5160
.050	.2080	-.1730	-.3170	-.3060	-.3040
.150	.1740	-.0660	-.2180	-.2070	-.2060
.300	.0970	.0270	-.1080	-.1560	-.1350
.520	-.0080	-.0250	.0170	-.0820	-.0820
.650	-.1920	-.4650	-.4680	-.4850	-.3090
.775	-.2470	-.4440	-.4760	-.4690	-.3610
.900		-.3800	-.3750	-.3620	-.3230

MACH (1) = 1.555 BETAT (4) = -.150

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8490	.7390	.5830	.6550	.4970
.050	.2250	.0040	-.0700	-.0620	-.0600
.150	.2620	.1890	.1820	.1820	.1430
.300	.1740	.1320	.1430	.1830	.1880
.520	.1070	.0740	.1070	.1640	.1930
.650	-.2240	-.4320	-.4400	-.4460	-.2230
.775	-.2260	-.4290	-.4490	-.4440	-.2880
.900		-.3960	-.4340	-.4400	-.2990

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR24)

SECTION (1) RIGHT VERTICAL		DEPENDENT VARIABLE CP				
MACH (1) = 1.555 BETAT (5) = 3.940	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.4320	.7240	.5970	.6000	.4060
	.050	.4220	.3600	.3390	.3950	.3950
	.150	.3330	.3070	.3340	.3810	.3570
	.300	.2530	.2420	.3030	.3470	.2970
	.520	.1990	.1980	.2370	.2830	.2890
	.650	-.1640	-.4070	-.4200	-.4350	-.2170
	.775	-.1730	-.3910	-.4170	-.4190	-.2720
	.900		-.3330	-.4140	-.4070	-.2830
MACH (1) = 1.555 BETAT (6) = 5.980	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3660	.6530	.6140	.5920	.3900
	.050	.4700	.4480	.4580	.5130	.5080
	.150	.3460	.3580	.4330	.4680	.4310
	.300	.2800	.3130	.3930	.4180	.3600
	.520	.2540	.2560	.3060	.3350	.3280
	.650	-.1390	-.3930	-.4150	-.4320	-.2120
	.775	-.1370	-.3660	-.4080	-.4110	-.2560
	.900		-.2750	-.4020	-.3970	-.2670
MACH (1) = 1.555 BETAT (7) = 8.030	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2450	.5860	.5660	.5090	.3000
	.050	.5010	.5050	.5700	.6290	.5910
	.150	.3760	.3980	.5170	.5430	.4900
	.300	.3160	.3830	.4520	.4720	.4020
	.520	.3160	.3000	.3420	.3640	.3420
	.650	-.0930	-.3800	-.4090	-.4260	-.2130
	.775	-.1110	-.3440	-.3960	-.4010	-.2430
	.900		-.2390	-.3870	-.3850	-.2510
MACH (2) = 2.000 BETAT (1) = -8.310	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3700	.4750	.4670	.5610	.5700
	.050	-.0610	-.1370	-.1880	-.2060	-.2060
	.150	.0450	-.1390	-.1790	-.1560	-.1510
	.300	.0280	-.1450	-.1260	-.1250	-.1050
	.520	-.0390	-.1030	-.0660	-.0770	-.0800
	.650	-.1540	-.2790	-.2720	-.1970	-.2140
	.775	-.1800	-.2740	-.2650	-.1830	-.2030
	.900		-.2390	-.2480	-.1830	-.2080
MACH (2) = 2.000 BETAT (2) = -6.270	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.4410	.6080	.5280	.6360	.6080
	.050	.0950	-.0930	-.1680	-.1530	-.1510
	.150	.1280	-.0830	-.1260	-.0950	-.0860
	.300	.0920	-.0410	-.0640	-.0590	-.0410

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1465

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR24)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	.0250	.0260	.0350	-.0090	-.0130
.650	-.1040	-.2670	-.2730	-.2660	-.1740
.775	-.1510	-.2670	-.2760	-.2270	-.2020
.900		-.2430	-.2390	-.2000	-.2060

MACH (2) = 2.000 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5330	.7250	.6160	.6960	.6220
.050	.2150	-.0320	-.1260	-.0940	-.0840
.150	.2090	.0330	-.0330	-.0210	-.0170
.300	.1490	.1280	.0200	.0170	.0250
.520	.0670	.0640	.0860	.0570	.0520
.650	-.0800	-.2630	-.2590	-.2740	-.1400
.775	-.1220	-.2680	-.2800	-.2860	-.1710
.900		-.2490	-.2560	-.2650	-.1710

MACH (2) = 2.000 BETAT (4) = -1.60

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.8680	.8400	.6630	.7220	.5910
.050	.2550	.1750	.0910	.0730	.0880
.150	.3230	.2790	.2520	.1900	.1870
.300	.2250	.2040	.2380	.2790	.2890
.520	.1670	.1360	.1700	.2180	.2430
.650	-.0890	-.2380	-.2430	-.2410	-.0680
.775	-.0860	-.2530	-.2590	-.2470	-.1220
.900		-.2380	-.2430	-.2420	-.1370

MACH (2) = 2.000 BETAT (5) = 3.920

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5090	.8010	.6770	.6930	.5410
.050	.4280	.4640	.4310	.4360	.4610
.150	.3540	.3710	.4040	.4230	.4180
.300	.2690	.2910	.3440	.3830	.3630
.520	.2270	.2160	.2560	.3020	.3050
.650	-.0750	-.2200	-.2210	-.2210	-.0330
.775	-.0400	-.2270	-.2260	-.2180	-.0960
.900		-.2090	-.2250	-.2170	-.1120

MACH (2) = 2.000 BETAT (6) = 5.960

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3760	.7030	.6550	.6490	.4880
.050	.5290	.5540	.5610	.5560	.5540
.150	.4130	.4230	.4870	.5020	.4940
.300	.2930	.3230	.4020	.4420	.4260
.520	.2610	.2610	.3090	.3610	.3780

AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR24)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.960		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.650	-.0630	-.2030	-.2090	-.2080	-.0200
		.775	.0010	-.2020	-.2110	-.2000	-.0750
		.900		-.1820	-.2080	-.1970	-.0890
MACH (2) = 2.000 BETAT (7) = 8.010		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2180	.6160	.6430	.5920	.4290
		.050	.5310	.6100	.6230	.6490	.6290
		.150	.4150	.4660	.5310	.5770	.5460
		.300	.2940	.3540	.4520	.5080	.4750
		.520	.2910	.3110	.3830	.4490	.4720
		.650	-.0430	-.1910	-.1950	-.1920	-.0110
		.775	.0200	-.1870	-.1960	-.1830	-.0460
		.900		-.1650	-.1920	-.1750	-.0620

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1467

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR25) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2110	.3290	.3050	.3860	.3770
.050	.0670	-.2980	-.3380	-.4300	-.4410
.150	.0510	-.3090	-.2750	-.3580	-.3710
.300	-.0130	-.0440	-.1910	-.3070	-.2880
.520	-.0840	-.1080	-.1670	-.2450	-.2290
.650	-.2810	-.4850	-.4850	-.3990	-.4030
.775	-.2870	-.4440	-.4810	-.3680	-.3920
.900		-.3870	-.3790	-.3590	-.3970

MACH (1) = 1.555 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4160	.4700	.4200	.5170	.4330
.050	.1610	-.1980	-.2930	-.3550	-.3590
.150	.0930	-.0520	-.1920	-.2600	-.2660
.300	.0480	.0280	-.0720	-.2040	-.1830
.520	-.0290	-.0710	-.0320	-.0910	-.1200
.650	-.2130	-.4590	-.4600	-.4790	-.3350
.775	-.2740	-.3980	-.4690	-.4430	-.3510
.900		-.3650	-.3910	-.3340	-.3320

MACH (1) = 1.555 BETAT (3) = -4.240

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3130	.5640	.4390	.5250	.4410
.050	.1720	-.1820	-.3200	-.3270	-.3200
.150	.1030	-.1110	-.2460	-.2360	-.2140
.300	.0440	.0030	-.0700	-.1530	-.1280
.520	-.0330	-.0670	-.0260	-.0040	-.0460
.650	-.2330	-.4730	-.4680	-.4650	-.2960
.775	-.2720	-.4240	-.4730	-.4560	-.3140
.900		-.3810	-.3640	-.3960	-.2990

MACH (1) = 1.555 BETAT (4) = -.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7060	.6630	.4960	.5600	.4100
.050	.2000	-.0150	-.0800	-.0750	-.0520
.150	.1910	.1400	.1400	.1240	.1000
.300	.1240	.0880	.0930	.1330	.1300
.520	.0600	.0280	.0650	.1160	.1440
.650	-.2550	-.4400	-.4510	-.4580	-.2520
.775	-.2500	-.4440	-.4550	-.4530	-.3080
.900		-.4120	-.4440	-.4470	-.3180

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR25)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3100	.6410	.5080	.5180	.3440
	.050	.3080	.3070	.2870	.3320	.3410
	.150	.2430	.2480	.2730	.3170	.3030
	.300	.1750	.1800	.2390	.2870	.2560
	.520	.1340	.1370	.1860	.2470	.2450
	.650	-.1900	-.4180	-.4300	-.4410	-.2350
	.775	-.2010	-.4050	-.4270	-.4210	-.2850
	.900		-.3500	-.4230	-.4030	-.2960

MACH (1) = 1.555 BETAT (6) = 5.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.3340	.5790	.5210	.5040	.3210
	.050	.2950	.3630	.3670	.4350	.4290
	.150	.2190	.2860	.3470	.4020	.3610
	.300	.1800	.2330	.3220	.3460	.2990
	.520	.1630	.1890	.2470	.2910	.2740
	.650	-.1580	-.4030	-.4230	-.4350	-.2330
	.775	-.1770	-.3820	-.4160	-.4160	-.2720
	.900		-.3100	-.4110	-.4020	-.2810

MACH (1) = 1.555 BETAT (7) = 8.040	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1540	.4740	.4680	.4080	.2280
	.050	.3610	.4030	.4780	.5390	.5180
	.150	.2760	.3090	.4290	.4670	.4250
	.300	.2180	.2880	.3790	.4080	.3440
	.520	.2150	.2310	.2860	.3130	.2900
	.650	-.1300	-.3930	-.4180	-.4330	-.2370
	.775	-.1560	-.3610	-.4060	-.4100	-.2660
	.900		-.2710	-.3980	-.3940	-.2730

MACH (2) = 2.000 BETAT (1) = -8.290	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1170	.3540	.3500	.4270	.4540
	.050	.0050	-.1570	-.2060	-.2320	-.2340
	.150	.0640	-.1690	-.2030	-.1890	-.1880
	.300	-.0200	-.1790	-.1560	-.1600	-.1470
	.520	-.0730	-.1100	-.1050	-.1190	-.1220
	.650	-.1910	-.2840	-.2850	-.2160	-.2320
	.775	-.1930	-.2780	-.2790	-.2010	-.2150
	.900		-.2560	-.2630	-.2010	-.2220

MACH (2) = 2.000 BETAT (2) = -6.250	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2910	.5110	.4320	.5210	.5030
	.050	.0800	-.1360	-.2000	-.1850	-.1810
	.150	.0970	-.1300	-.1600	-.1360	-.1260

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1469

AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

(RBOR25)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0280	-.0170	-.0210	-.0580	-.0620
.650	-.1470	-.2790	-.2830	-.2650	-.1990
.775	-.1630	-.2750	-.2860	-.2350	-.2210
.900		-.2520	-.2540	-.2200	-.2240

MACH (2) = 2.000 BETAT (3) = -4.210

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3290	.6120	.5110	.5760	.5250
.050	.1940	-.0820	-.1530	-.1290	-.1180
.150	.1450	-.0370	-.0720	-.0660	-.0600
.300	.0800	.0770	-.0270	-.0260	-.0200
.520	.0170	.0120	.0360	.0100	.0000
.650	-.1190	-.2730	-.2720	-.2810	-.1680
.775	-.1490	-.2660	-.2840	-.2910	-.1890
.900		-.2470	-.2620	-.2660	-.1920

MACH (2) = 2.000 BETAT (4) = -.140

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7340	.7390	.5650	.6150	.5030
.050	.2030	.1340	.0620	.0510	.0700
.150	.2500	.2250	.1990	.1500	.1510
.300	.1660	.1520	.1870	.2290	.2290
.520	.1150	.0870	.1250	.1700	.1890
.650	-.1150	-.2470	-.2520	-.2480	-.0910
.775	-.1130	-.2640	-.2670	-.2510	-.1410
.900		-.2510	-.2510	-.2490	-.1570

MACH (2) = 2.000 BETAT (5) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2970	.6800	.5840	.6000	.4460
.050	.3140	.4010	.3910	.4010	.4040
.150	.2730	.3170	.3570	.3760	.3730
.300	.1990	.2370	.2920	.3280	.3170
.520	.1620	.1630	.2050	.2500	.2620
.650	-.0960	-.2310	-.2330	-.2290	-.0560
.775	-.0720	-.2410	-.2390	-.2240	-.1140
.900		-.2230	-.2360	-.2280	-.1270

MACH (2) = 2.000 BETAT (6) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.0520	.4950	.5290	.4680	.3160
.050	.4320	.5250	.5560	.5770	.5550
.150	.3300	.3930	.4670	.5060	.4760
.300	.2190	.2870	.3830	.4430	.4050
.520	.2070	.2270	.3040	.3670	.4040

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR25)

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.020

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.0770	-.2080	-.2090	-.2090	-.0290
.775	-.0170	-.2040	-.2110	-.1990	-.0610
.900		-.1860	-.2060	-.1950	-.0780

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1471

AMES 97-707 1A9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR26) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2360	.2630	.2210	.2930	.2920
.050	.1750	-.2980	-.3550	-.4370	-.4550
.150	.0800	-.1880	-.2930	-.3790	-.3940
.300	-.0070	-.0920	-.2180	-.3390	-.3160
.520	-.0850	-.1430	-.1960	-.2680	-.2600
.650	-.3080	-.4560	-.4720	-.4570	-.4140
.775	-.3080	-.4230	-.4800	-.4150	-.4180
.900		-.4070	-.4100	-.3790	-.4130

MACH (1) = 1.555 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2890	.3500	.3450	.4210	.3720
.050	.1260	-.1960	-.3030	-.3670	-.3730
.150	.1080	-.0100	-.2010	-.2820	-.2920
.300	.0530	-.0310	-.1040	-.2270	-.2140
.520	-.0110	-.0980	-.0570	-.0220	-.1380
.650	-.2240	-.4290	-.4620	-.4830	-.3560
.775	-.2670	-.3780	-.4780	-.4370	-.3420
.900		-.3860	-.3930	-.3250	-.3460

MACH (1) = 1.555 BETAT (3) = -4.220

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2550	.4660	.3670	.4660	.3890
.050	.2060	-.1950	-.2950	-.3130	-.3060
.150	.1110	-.0070	-.2050	-.2130	-.2060
.300	.0260	-.0180	-.0180	-.1350	-.1320
.520	-.0290	-.0670	.0010	.0690	.0760
.650	-.2230	-.4490	-.4620	-.4660	-.2520
.775	-.2610	-.3800	-.4720	-.4700	-.3130
.900		-.3860	-.4250	-.3960	-.3240

MACH (1) = 1.555 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5950	.5850	.4170	.4640	.3330
.050	.1190	-.0440	-.1070	-.0920	-.0540
.150	.1370	.0930	.0910	.0920	.0450
.300	.0750	.0410	.0530	.0860	.0770
.520	.0140	-.0130	.0260	.0710	.0870
.650	-.2880	-.4470	-.4580	-.4630	-.2820
.775	-.2540	-.4550	-.4610	-.4590	-.3280
.900		-.4190	-.4500	-.4530	-.3370

AMES 97-707 IA9 C2A + S3 + T9 RIGHT VERTICAL

(RBOR26)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.960		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2440	.5410	.4250	.4690	.3000
		.050	.1580	.2260	.2150	.2550	.2610
		.150	.1300	.1810	.2100	.2550	.2400
		.300	.0840	.1220	.1830	.2320	.1980
		.520	.0550	.0810	.1470	.2040	.1930
		.650	-.2140	-.4300	-.4390	-.4470	-.2560
		.775	-.2260	-.4190	-.4370	-.4340	-.3030
		.900		-.3730	-.4330	-.4170	-.3180

MACH (1) = 1.555 BETAT (6) = 6.010		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1410	.3860	.4410	.4280	.2650
		.050	.2140	.2420	.2930	.3600	.3610
		.150	.1530	.1840	.2770	.3270	.3000
		.300	.1010	.1600	.2540	.2670	.2430
		.520	.1040	.1160	.1870	.2420	.2230
		.650	-.1780	-.4120	-.4350	-.4430	-.2570
		.775	-.2090	-.3820	-.4300	-.4260	-.2930
		.900		-.3070	-.4240	-.4150	-.3020

MACH (1) = 1.555 BETAT (7) = 8.050		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2870	.3780	.3790	.3270	.1540
		.050	.1990	.3140	.3830	.4600	.4490
		.150	.1680	.2370	.3430	.3950	.3550
		.300	.1320	.2040	.3100	.3450	.2870
		.520	.1440	.1680	.2260	.2590	.2380
		.650	-.1360	-.4000	-.4290	-.4380	-.2560
		.775	-.1810	-.3570	-.4190	-.4180	-.2810
		.900		-.2900	-.4120	-.4040	-.2880

MACH (2) = 2.000 BETAT (1) = -8.280		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1500	.2620	.2650	.3450	.3520
		.050	.0600	-.1930	-.2290	-.2560	-.2550
		.150	.0240	-.2160	-.2260	-.2240	-.2170
		.300	-.0230	-.1230	-.1810	-.1990	-.1840
		.520	-.0680	-.1140	-.1370	-.1630	-.1610
		.650	-.2020	-.2810	-.2980	-.2350	-.2520
		.775	-.2040	-.2820	-.2960	-.2260	-.2300
		.900		-.2650	-.2670	-.2280	-.2410

MACH (2) = 2.000 BETAT (2) = -6.230		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1590	.3820	.3400	.3990	.3960
		.050	.0990	-.1450	-.1910	-.2180	-.2150
		.150	.0750	-.1610	-.1880	-.1740	-.1670
		.300	-.0210	-.0590	-.1350	-.1390	-.1260

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1473

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR26)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.520	-.0330	-.0710	-.0680	-.1040	-.1040
.650	-.1630	-.2680	-.2880	-.2620	-.2230
.775	-.1770	-.2500	-.2940	-.2400	-.2320
.900		-.2480	-.2630	-.2250	-.2290

MACH (2) = 2.000 BETAT (3) = -4.200

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1780	.5200	.4290	.4720	.4320
.050	.1680	-.1030	-.1600	-.1590	-.1500
.150	.1190	-.0340	-.1030	-.1010	-.0960
.300	.0490	.0180	-.0470	-.0610	-.0560
.520	.0090	-.0280	.0000	-.0230	-.0340
.650	-.1400	-.2600	-.2800	-.2880	-.1840
.775	-.1610	-.2380	-.2870	-.2860	-.2020
.900		-.2510	-.2700	-.2570	-.2080

MACH (2) = 2.000 BETAT (4) = -.120

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.7280	.6470	.4860	.5290	.4260
.050	.0570	.0600	.0230	.0190	.0390
.150	.1880	.1860	.1380	.1040	.1060
.300	.1150	.1160	.1490	.1790	.1800
.520	.0700	.0500	.0860	.1280	.1490
.650	-.1600	-.2540	-.2590	-.2550	-.1160
.775	-.1330	-.2740	-.2760	-.2600	-.1610
.900		-.2620	-.2620	-.2580	-.1740

MACH (2) = 2.000 BETAT (5) = 3.950

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1670	.5780	.4910	.4840	.3480
.050	.2010	.3120	.3220	.3470	.3470
.150	.1880	.2390	.2870	.3140	.3080
.300	.1350	.1730	.2320	.2680	.2590
.520	.1010	.1100	.1550	.2000	.2210
.650	-.0860	-.2470	-.2460	-.2380	-.0800
.775	-.1060	-.2530	-.2520	-.2320	-.1270
.900		-.2420	-.2500	-.2380	-.1420

MACH (2) = 2.000 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1090	.4650	.4670	.4250	.2820
.050	.3310	.4010	.4260	.4350	.4230
.150	.2620	.2890	.3560	.3810	.3590
.300	.1540	.1950	.2810	.3260	.3030
.520	.1250	.1300	.1930	.2420	.2700

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR26)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 5.990

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1170	-.2330	-.2360	-.2290	-.0660
.775	-.0680	-.2320	-.2390	-.2220	-.1040
.900		-.2180	-.2340	-.2230	-.1200

MACH (2) = 2.000 BETAT (7) = 8.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1420	.3760	.4310	.3810	.2190
.050	.2650	.4160	.4640	.5170	.4980
.150	.2140	.2880	.3820	.4460	.4210
.300	.1080	.1970	.3120	.3850	.3570
.520	.1300	.1750	.2590	.3260	.3540
.650	-.1210	-.2230	-.2190	-.2190	-.0580
.775	-.0610	-.2230	-.2240	-.2090	-.0860
.900		-.2090	-.2210	-.2060	-.1000

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1475

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR27) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3070	.2350	.1640	.2280	.2400
.050	.1660	-.3190	-.3610	-.4350	-.4680
.150	.0690	-.1770	-.3030	-.4030	-.4100
.300	-.0200	-.1110	-.2400	-.3560	-.3380
.520	-.0870	-.1590	-.2250	-.2500	-.2820
.650	-.3190	-.4610	-.4680	-.4790	-.4240
.775	-.3150	-.4320	-.4830	-.4210	-.4380
.900		-.4180	-.4160	-.3950	-.4320

MACH (1) = 1.555 BETAT (2) = -6.270

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3800	.3180	.2980	.3660	.3230
.050	.1830	-.2020	-.2920	-.3740	-.3890
.150	.1210	-.0120	-.1850	-.3010	-.3100
.300	.0590	-.0360	-.1250	-.2510	-.2350
.520	-.0180	-.1040	-.0760	-.0240	-.1200
.650	-.2380	-.4350	-.4650	-.4880	-.3420
.775	-.2830	-.3920	-.4780	-.4550	-.3480
.900		-.4020	-.4060	-.3410	-.3590

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2680	.3750	.3390	.4230	.3520
.050	.1870	-.1810	-.2730	-.3140	-.3130
.150	.1120	.0090	-.1410	-.2210	-.2130
.300	.0420	-.0170	-.0430	-.0970	-.1450
.520	-.0200	-.0850	-.0200	.0420	.0580
.650	-.2170	-.4310	-.4660	-.4740	-.2560
.775	-.2620	-.3760	-.4750	-.4650	-.3280
.900		-.3760	-.4110	-.3460	-.3410

MACH (1) = 1.555 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.5610	.5430	.3820	.4230	.2940
.050	.0850	-.0650	-.1070	-.1110	-.0910
.150	.1100	.0660	.0680	.0490	.0490
.300	.0490	.0170	.0340	.0640	.0550
.520	-.0040	-.0270	.0040	.0520	.0610
.650	-.2950	-.4530	-.4620	-.4650	-.2920
.775	-.2550	-.4580	-.4650	-.4610	-.3340
.900		-.4280	-.4520	-.4550	-.3450

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBOR27)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.990		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2100	.4620	.4050	.4320	.2740
		.050	.1150	.1890	.1790	.2240	.2410
		.150	.1010	.1460	.1890	.2340	.2180
		.300	.0580	.0970	.1670	.2070	.1770
		.520	.0410	.0590	.1260	.1750	.1720
		.650	-.1850	-.4350	-.4440	-.4500	-.2660
		.775	-.2310	-.4160	-.4430	-.4380	-.3100
		.900		-.3460	-.4390	-.4210	-.3230

MACH (1) = 1.555 BETAT (6) = 6.030		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2630	.2950	.3890	.3880	.2190
		.050	.2160	.2060	.2700	.3320	.3380
		.150	.1540	.1650	.2430	.3010	.2740
		.300	.0950	.1320	.2260	.2590	.2160
		.520	.0850	.1080	.1650	.2120	.1040
		.650	-.2380	-.4030	-.4400	-.4460	-.2670
		.775	-.2120	-.3880	-.4360	-.4320	-.3020
		.900		-.3180	-.4300	-.4230	-.3130

MACH (1) = 1.555 BETAT (7) = 8.090		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.3690	.3670	.3280	.2800	.1180
		.050	.1960	.3100	.3480	.4250	.4090
		.150	.1530	.2310	.3080	.3660	.3230
		.300	.0980	.1680	.2830	.3200	.2590
		.520	.1160	.1620	.2040	.2280	.2120
		.650	-.2280	-.4040	-.4290	-.4410	-.2640
		.775	-.1910	-.3940	-.4150	-.4220	-.2890
		.900		-.3260	-.4010	-.4080	-.2960

MACH (2) = 2.000 BETAT (1) = -8.300		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.1940	.1840	.1920	.2700	.2940
		.050	.1120	-.1910	-.2310	-.2700	-.2720
		.150	.0240	-.2150	-.2410	-.2380	-.2400
		.300	-.0450	-.1070	-.1790	-.2100	-.2030
		.520	-.0790	-.1320	-.1700	-.1890	-.1840
		.650	-.1950	-.2850	-.2950	-.2560	-.2600
		.775	-.2060	-.2790	-.3040	-.2460	-.2360
		.900		-.2620	-.2740	-.2400	-.2480

MACH (2) = 2.000 BETAT (2) = -6.250		Z/BV	.158	.316	.600	.840	.925
		X/CV					
		.000	.2230	.3210	.3030	.3620	.3540
		.050	.1560	-.1400	-.1920	-.2290	-.2260
		.150	.0890	-.1520	-.2000	-.1890	-.1790
		.300	.0110	-.0670	-.1300	-.1550	-.1410

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1477

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR27)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	-.0170	-.0770	-.0910	-.1180	-.1180
	.650	-.1670	-.2560	-.2860	-.2650	-.2300
	.775	-.1840	-.2470	-.2930	-.2440	-.2350
	.900		-.2490	-.2660	-.2320	-.2300
MACH (2) = 2.000 BETAT (3) = -4.200	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1390	.4670	.3980	.4330	.3920
	.050	.1700	-.1040	-.1560	-.1700	-.1620
	.150	.1240	-.0110	-.1190	-.1140	-.1110
	.300	.0520	-.0020	-.0510	-.0750	-.0680
MACH (2) = 2.000 BETAT (4) = -.120	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7340	.6090	.4430	.4820	.3850
	.050	.0140	.0230	-.0040	-.0010	.0160
	.150	.1760	.1460	.0990	.0800	.0850
	.300	.0870	.0920	.1310	.1580	.1600
MACH (2) = 2.000 BETAT (5) = 3.970	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1210	.5170	.4550	.4380	.3000
	.050	.1630	.2770	.3000	.3190	.3230
	.150	.1570	.2120	.2610	.2860	.2900
	.300	.1100	.1480	.2090	.2500	.2440
MACH (2) = 2.000 BETAT (6) = 6.030	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2080	.4000	.4190	.3880	.2370
	.050	.2760	.3510	.3870	.4090	.3990
	.150	.2160	.2390	.3150	.3540	.3450
	.300	.1090	.1540	.2490	.3020	.2880

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR27)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.030

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1290	-.2330	-.2340	-.2300	-.0710
.775	-.0800	-.2360	-.2410	-.2200	-.1090
.900		-.2230	-.2390	-.2230	-.1220

MACH (2) = 2.000 BETAT (7) = 8.070

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1490	.2750	.3540	.3140	.1750
.050	.1650	.3540	.4250	.4800	.4630
.150	.1440	.2560	.3600	.4130	.3920
.300	.0710	.1730	.2850	.3550	.3290
.520	.0890	.1410	.2280	.3010	.3280
.650	-.1410	-.2260	-.2270	-.2240	-.0700
.775	-.0740	-.2250	-.2330	-.2130	-.0960
.900		-.2060	-.2300	-.2140	-.1080

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1479

AMES 97-707 IA9 O2A + S3 + T9 RIGHT VERTICAL

(RBOR28) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1)RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

Z/BV	.158	.316	.600	.840	.925	
X/CV	.000	.4580	.2360	.1130	.1750	.1990
.050	.1290	-.2920	-.3750	-.4300	-.4780	
.150	.0520	-.1020	-.3090	-.4180	-.4230	
.300	-.0410	-.1420	-.2640	-.3670	-.3580	
.520	-.0970	-.1790	-.2350	-.2220	-.2970	
.650	-.3390	-.4720	-.4620	-.5020	-.4290	
.775	-.3160	-.4650	-.4850	-.4430	-.4500	
.900		-.4240	-.4150	-.3910	-.4390	

MACH (1) = 1.555 BETAT (2) = -6.300

Z/BV	.158	.316	.600	.840	.925	
X/CV	.000	.3710	.2460	.2350	.3080	.2740
.050	.2410	-.2150	-.2860	-.3760	-.4040	
.150	.1430	-.0180	-.1630	-.3230	-.3260	
.300	.0560	-.0580	-.1530	-.2290	-.2560	
.520	-.0240	-.1150	-.0930	-.0660	-.0840	
.650	-.2860	-.4500	-.4640	-.4910	-.3190	
.775	-.2900	-.4190	-.4820	-.4810	-.3690	
.900		-.4130	-.4190	-.3600	-.3820	

MACH (1) = 1.555 BETAT (3) = -4.230

Z/BV	.158	.316	.600	.840	.925	
X/CV	.000	.3530	.2930	.3070	.3860	.3090
.050	.1930	-.1540	-.2620	-.3080	-.3240	
.150	.1300	.0100	-.1130	-.2270	-.2260	
.300	.0590	-.0270	-.0580	-.0630	-.1380	
.520	.0040	-.0830	-.0220	.0190	.0500	
.650	-.2680	-.4240	-.4610	-.4730	-.2820	
.775	-.2710	-.3810	-.4740	-.4740	-.3330	
.900		-.3910	-.4120	-.3630	-.3440	

MACH (1) = 1.555 BETAT (4) = -.110

Z/BV	.158	.316	.600	.840	.925	
X/CV	.000	.4930	.4990	.3400	.3830	.2550
.050	.0950	-.0740	-.1120	-.1060	-.0690	
.150	.1000	.0460	.0490	.0370	.0360	
.300	.0370	-.0010	.0160	.0450	.0400	
.520	-.0130	-.0350	-.0040	.0380	.0510	
.650	-.3170	-.4460	-.4630	-.4670	-.3030	
.775	-.2580	-.4540	-.4670	-.4640	-.3440	
.900		-.4120	-.4490	-.4560	-.3550	

AMES 97-707 IA9 Q2A + S3 + T9 RIGHT VERTICAL

(RBCR28)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 4.000

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2750	.3700	.3670	.3860	.2380
.050	.1420	.1880	.1630	.2050	.2180
.150	.1010	.1290	.1600	.2040	.1970
.300	.0430	.0670	.1420	.1820	.1570
.520	.0400	.0560	.1110	.1610	.1520
.650	-.2790	-.4240	-.4490	-.4530	-.2770
.775	-.2290	-.4140	-.4480	-.4400	-.3160
.900		-.3480	-.4430	-.4210	-.3300

MACH (1) = 1.555 BETAT (6) = 6.060

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.4010	.3270	.3400	.3380	.1800
.050	.1380	.2300	.2400	.3040	.3030
.150	.1350	.1710	.2080	.2750	.2490
.300	.0700	.1080	.1970	.2340	.2000
.520	.0540	.1060	.1440	.1820	.1670
.650	-.2870	-.4140	-.4450	-.4500	-.2750
.775	-.2070	-.4210	-.4380	-.4380	-.3120
.900		-.3770	-.4260	-.4270	-.3250

MACH (1) = 1.555 BETAT (7) = 8.130

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.3700	.3320	.2890	.2340	.0740
.050	.1620	.2550	.3230	.3910	.3800
.150	.1270	.1890	.2760	.3320	.2990
.300	.0580	.1300	.2620	.2870	.2380
.520	.0800	.1410	.1890	.2140	.1890
.650	-.2750	-.4050	-.4330	-.4430	-.2750
.775	-.1900	-.4090	-.4230	-.4190	-.2920
.900		-.3570	-.4130	-.4050	-.2980

MACH (2) = 2.000 BETAT (1) = -8.320

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2120	.1000	.1350	.2110	.2460
.050	.0440	-.2050	-.2390	-.2740	-.2750
.150	.0040	-.1690	-.2500	-.2380	-.2450
.300	-.0490	-.1120	-.1940	-.2240	-.2130
.520	-.0620	-.1320	-.1890	-.2030	-.1970
.650	-.1830	-.2820	-.2880	-.2780	-.2700
.775	-.2010	-.2730	-.3040	-.2650	-.2540
.900		-.2630	-.2870	-.2560	-.2620

MACH (2) = 2.000 BETAT (2) = -6.260

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.2430	.2630	.2590	.3150	.3140
.050	.2110	-.1500	-.2000	-.2410	-.2400
.150	.1200	-.0370	-.2120	-.2020	-.1990
.300	.0250	-.0790	-.1450	-.1670	-.1580

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1481

AMES 97-757 IA9 C2A + S3 + T9 RIGHT VERTICAL

(RBOR28)

SECTION (1) RIGHT VERTICAL		DEPENDENT VARIABLE CP				
MACH (2) = 2.000 BETAT (2) = -6.260	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.520	.0020	-.0900	-.1010	-.1340	-.1380
	.650	-.1690	-.2640	-.2810	-.2860	-.2420
	.775	-.1840	-.2590	-.2900	-.2660	-.2470
	.900		-.2550	-.2810	-.2530	-.2450
MACH (2) = 2.000 BETAT (3) = -4.210	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.1050	.3810	.3540	.3870	.3470
	.050	.1740	-.0940	-.1470	-.1790	-.1710
	.150	.1280	.0040	-.1340	-.1260	-.1210
	.300	.0550	-.0130	-.0570	-.0860	-.0800
	.520	.0070	-.0450	-.0220	-.0410	-.0580
	.650	-.1550	-.2490	-.2780	-.2860	-.1950
	.775	-.1700	-.2440	-.2930	-.2860	-.2150
	.900		-.2460	-.2740	-.2480	-.2190
MACH (2) = 2.000 BETAT (4) = -.110	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.7240	.5710	.4050	.4320	.3360
	.050	-.0330	-.0240	-.0230	-.0140	.0030
	.150	.1520	.0820	.0610	.0590	.0630
	.300	.0530	.0730	.1110	.1360	.1300
	.520	.0270	.0200	.0570	.0930	.1110
	.650	-.1740	-.2630	-.2650	-.2620	-.1380
	.775	-.1530	-.2780	-.2810	-.2660	-.1750
	.900		-.2690	-.2670	-.2620	-.1890
MACH (2) = 2.000 BETAT (5) = 3.990	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.0920	.4330	.4120	.4050	.2650
	.050	.1400	.2600	.2620	.2960	.2970
	.150	.1220	.1870	.2280	.2670	.2620
	.300	.0670	.1190	.1790	.2220	.2180
	.520	.0540	.0730	.1170	.1590	.1800
	.650	-.1550	-.2450	-.2490	-.2460	-.0960
	.775	-.1210	-.2530	-.2560	-.2370	-.1420
	.900		-.2380	-.2550	-.2450	-.1530
MACH (2) = 2.000 BETAT (6) = 6.050	Z/BV	.158	.316	.600	.840	.925
	X/CV					
	.000	.2710	.3230	.3800	.3430	.2000
	.050	.1440	.2950	.3510	.3840	.3710
	.150	.1180	.2050	.2850	.3260	.3160
	.300	.0590	.1380	.2230	.2780	.2680
	.520	.0590	.0930	.1590	.2150	.2340

AMES 97-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

(RBOR28)

SECTION (1) RIGHT VERTICAL

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 6.050

Z/BV	.158	.316	.600	.840	.925
X/CV					
.650	-.1560	-.2350	-.2390	-.2340	-.0800
.775	-.1050	-.2400	-.2480	-.2230	-.1130
.900		-.2280	-.2450	-.2290	-.1270

MACH (2) = 2.000 BETAT (7) = 8.110

Z/BV	.158	.316	.600	.840	.925
X/CV					
.000	.1750	.2120	.2970	.2550	.1250
.050	.1180	.3370	.3870	.4400	.4270
.150	.1000	.2570	.3210	.3770	.3620
.300	.0370	.1790	.2630	.3240	.3050
.520	.0460	.1290	.2060	.2840	.3070
.650	-.1630	-.2270	-.2330	-.2300	-.0840
.775	-.0930	-.2360	-.2380	-.2190	-.1080
.900		-.2240	-.2280	-.2170	-.1180

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1483

AMES 97-707 1A9 Q2A + S3 + T9 APU INLET

(RBOP01) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (1) = 1.555 ALPHAT(1) = -8.400	Z/BV .079 X/CV .6220 .076 .6220
MACH (1) = 1.555 ALPHAT(2) = -6.330	Z/BV .079 X/CV .5790 .076 .5790
MACH (1) = 1.555 ALPHAT(3) = -4.250	Z/BV .079 X/CV .5520 .076 .5520
MACH (1) = 1.555 ALPHAT(4) = -2.190	Z/BV .079 X/CV .5160 .076 .5160
MACH (1) = 1.555 ALPHAT(5) = -.120	Z/BV .079 X/CV .4920 .076 .4920
MACH (1) = 1.555 ALPHAT(6) = 1.950	Z/BV .079 X/CV .4930 .076 .4930
MACH (1) = 1.555 ALPHAT(7) = 4.010	Z/BV .079 X/CV .5150 .076 .5150
MACH (1) = 1.555 ALPHAT(8) = 6.060	Z/BV .079 X/CV .5570 .076 .5570
MACH (1) = 1.555 ALPHAT(9) = 8.130	Z/BV .079 X/CV .6420 .076 .6420
MACH (2) = 2.000 ALPHAT(1) = -8.360	Z/BV .079 X/CV .6100 .076 .6100

AMES 97-707 1A9 O2A + S3 + T9 APU INLET

(RBOP01)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	ALPHAT(2) = -6.310	Z/BV	.079
		X/CV	
		.076	.5670
MACH (2) = 2.000	ALPHAT(3) = -4.250	Z/BV	.079
		X/CV	
		.076	.5250
MACH (2) = 2.000	ALPHAT(4) = -2.210	Z/BV	.079
		X/CV	
		.076	.4970
MACH (2) = 2.000	ALPHAT(5) = -.160	Z/BV	.079
		X/CV	
		.076	.4780
MACH (2) = 2.000	ALPHAT(6) = 1.890	Z/BV	.079
		X/CV	
		.076	.4720
MACH (2) = 2.000	ALPHAT(7) = 3.930	Z/BV	.079
		X/CV	
		.076	.4750
MACH (2) = 2.000	ALPHAT(8) = 5.980	Z/BV	.079
		X/CV	
		.076	.5070
MACH (2) = 2.000	ALPHAT(9) = 8.020	Z/BV	.079
		X/CV	
		.076	.5550

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1485

AMES 97-707 IA9 C2A + S3 + T9 APU INLET

(RBOP42) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (1) = -7.140	Z/BV .079 X/CV .076 .4490
MACH (1) = 1.555 BETAT (2) = -5.100	Z/BV .079 X/CV .076 .4740
MACH (1) = 1.555 BETAT (3) = -3.050	Z/BV .079 X/CV .076 .4240
MACH (1) = 1.555 BETAT (4) = 5.110	Z/BV .079 X/CV .076 .5050
MACH (1) = 1.555 BETAT (5) = 7.140	Z/BV .079 X/CV .076 .4270
MACH (1) = 1.555 BETAT (6) = 9.190	Z/BV .079 X/CV .076 .4000
MACH (2) = 2.000 BETAT (1) = -8.320	Z/BV .079 X/CV .076 .5570
MACH (2) = 2.000 BETAT (2) = -6.270	Z/BV .079 X/CV .076 .3240
MACH (2) = 2.000 BETAT (3) = -4.210	Z/BV .079 X/CV .076 .3870
MACH (2) = 2.000 BETAT (4) = 3.990	Z/BV .079 X/CV .076 .3390

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBOF02)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 6.960

Z/BV .079

X/CV

.076 .3680

MACH (2) = 2.000 BETAT (6) = 8.120

Z/BV .079

X/CV

.076 .3920

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1487

AMES 97-707 IA9 C2A + S3 + T9 APU INLET

(RBQP03) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.120	Z/BV	.079
		X/CV	
		.076	.4720
MACH (1) = 1.555	BETAT (2) = -5.070	Z/BV	.079
		X/CV	
		.076	.4260
MACH (1) = 1.555	BETAT (3) = -3.050	Z/BV	.079
		X/CV	
		.076	.4490
MACH (1) = 1.555	BETAT (4) = 5.080	Z/BV	.079
		X/CV	
		.076	.4380
MACH (1) = 1.555	BETAT (5) = 7.110	Z/BV	.079
		X/CV	
		.076	.4730
MACH (1) = 1.555	BETAT (6) = 9.140	Z/BV	.079
		X/CV	
		.076	.4390
MACH (2) = 2.000	BETAT (1) = -8.300	Z/BV	.079
		X/CV	
		.076	.4860
MACH (2) = 2.000	BETAT (2) = -6.250	Z/BV	.079
		X/CV	
		.076	.2140
MACH (2) = 2.000	BETAT (3) = -4.200	Z/BV	.079
		X/CV	
		.076	.3410
MACH (2) = 2.000	BETAT (4) = 3.970	Z/BV	.079
		X/CV	
		.076	.2900

AMES 97-707 1A9 C2A + S3 + T9 APU INLET

(RBOP03)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 6.030

Z/BV .079

X/CV

.076 .1190

MACH (2) = 2.000 BETAT (6) = 8.080

Z/BV .079

X/CV

.076 .4080

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1489

AMES 97-707 IA9 C2A + S3 + T9 APU INLET

(RBOF04) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (1) = -7.090	Z/BV .079 X/CV .076 .4120
MACH (1) = 1.555 BETAT (2) = -5.070	Z/BV .079 X/CV .076 .3540
MACH (1) = 1.555 BETAT (3) = -3.040	Z/BV .079 X/CV .076 .7050
MACH (1) = 1.555 BETAT (4) = 5.060	Z/BV .079 X/CV .076 .4210
MACH (1) = 1.555 BETAT (5) = 7.080	Z/BV .079 X/CV .076 .4680
MACH (1) = 1.555 BETAT (6) = 9.100	Z/BV .079 X/CV .076 .3860
MACH (2) = 2.000 BETAT (1) = -8.270	Z/BV .079 X/CV .076 .2540
MACH (2) = 2.000 BETAT (2) = -6.240	Z/BV .079 X/CV .076 .2240
MACH (2) = 2.000 BETAT (3) = -4.200	Z/BV .079 X/CV .076 .2460
MACH (2) = 2.000 BETAT (4) = 3.950	Z/BV .079 X/CV .076 .2160

AMES 97-707 IA9 C2A + S3 + T9 APU INLET

(RBOPU4)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 5.990

Z/BV .079

X/CV

.076 .1720

MACH (2) = 2.000 BETAT (6) = 8.030

Z/BV .079

X/CV

.076 .2760

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1491

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP05) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	Z/BV	.079
		X/CV	
		.076	.3430
MACH (1) = 1.555	BETAT (2) = -5.070	Z/BV	.079
		X/CV	
		.076	.4190
MACH (1) = 1.555	BETAT (3) = -3.050	Z/BV	.079
		X/CV	
		.076	.6840
MACH (1) = 1.555	BETAT (4) = 5.050	Z/BV	.079
		X/CV	
		.076	.4890
MACH (1) = 1.555	BETAT (5) = 7.070	Z/BV	.079
		X/CV	
		.076	.3690
MACH (1) = 1.555	BETAT (6) = 9.090	Z/BV	.079
		X/CV	
		.076	.3510
MACH (2) = 2.000	BETAT (1) = -8.280	Z/BV	.079
		X/CV	
		.076	.2030
MACH (2) = 2.000	BETAT (2) = -6.250	Z/BV	.079
		X/CV	
		.076	.2290
MACH (2) = 2.000	BETAT (3) = -4.140	Z/BV	.079
		X/CV	
		.076	.2530
MACH (2) = 2.000	BETAT (4) = 3.940	Z/BV	.079
		X/CV	
		.076	.2350

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP05)

SECTION (1)APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 5.980

Z/BV	.079
X/CV	
.076	.1710

MACH (2) = 2.000 BETAT (6) = 8.020

Z/BV	.079
X/CV	
.076	.1430

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1493

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOPD6) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 CRBINC = .500
 RUDDER = .000 ELEVON = .000
 RUCFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	Z/BV	.079
		X/CV	
		.076	.3870
MACH (1) = 1.555	BETAT (2) = -5.080	Z/BV	.079
		X/CV	
		.076	.4040
MACH (1) = 1.555	BETAT (3) = -3.060	Z/BV	.079
		X/CV	
		.076	.5980
MACH (1) = 1.555	BETAT (4) = 5.050	Z/BV	.079
		X/CV	
		.076	.4170
MACH (1) = 1.555	BETAT (5) = 7.060	Z/BV	.079
		X/CV	
		.076	.3640
MACH (1) = 1.555	BETAT (6) = 9.090	Z/BV	.079
		X/CV	
		.076	.2980
MACH (2) = 2.000	BETAT (1) = -8.290	Z/BV	.079
		X/CV	
		.076	.2170
MACH (2) = 2.000	BETAT (2) = -6.250	Z/BV	.079
		X/CV	
		.076	.2520
MACH (2) = 2.000	BETAT (3) = -.130	Z/BV	.079
		X/CV	
		.076	.4630
MACH (2) = 2.000	BETAT (4) = 3.950	Z/BV	.079
		X/CV	
		.076	.2280

AMES 97-757 IA9 O2A + S3 + T9 APU INLET

(RBOF06)

SECTION (1)APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 5.980

Z/BV .079
X/CV
.076 .1420

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1495

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBOP07) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.110	Z/BV	.079
		X/CV	.076 .3780
MACH (1) = 1.555	BETAT (2) = -5.090	Z/BV	.079
		X/CV	.076 .3510
MACH (1) = 1.555	BETAT (3) = -3.070	Z/BV	.079
		X/CV	.076 .4970
MACH (1) = 1.555	BETAT (4) = 5.040	Z/BV	.079
		X/CV	.076 .3770
MACH (1) = 1.555	BETAT (5) = 7.060	Z/BV	.079
		X/CV	.076 .4540
MACH (1) = 1.555	BETAT (6) = 9.080	Z/BV	.079
		X/CV	.076 .2410
MACH (2) = 2.000	BETAT (1) = -8.310	Z/BV	.079
		X/CV	.076 .2270
MACH (2) = 2.000	BETAT (2) = -6.260	Z/BV	.079
		X/CV	.076 .2580
MACH (2) = 2.000	BETAT (3) = -4.230	Z/BV	.079
		X/CV	.076 .3060
MACH (2) = 2.000	BETAT (4) = 3.940	Z/BV	.079
		X/CV	.076 .2760

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP07)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (5) = 5.970	Z/BV	.079
		X/CV	
		.076	.2080
MACH (2) = 2.000	BETAT (6) = 8.010	Z/BV	.079
		X/CV	
		.076	.1580

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1497

AMES 97-707 IAS CGA + S3 + T9 APU INLET

(RBOP08) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.130	Z/BV	.079
		X/CV	.076 .3460
MACH (1) = 1.555	BETAT (2) = -6.150	Z/BV	.079
		X/CV	.076 .2890
MACH (1) = 1.555	BETAT (3) = -3.070	Z/BV	.079
		X/CV	.076 .4620
MACH (1) = 1.555	BETAT (4) = 5.030	Z/BV	.079
		X/CV	.076 .3940
MACH (1) = 1.555	BETAT (5) = 7.050	Z/BV	.079
		X/CV	.076 .3850
MACH (1) = 1.555	BETAT (6) = 9.070	Z/BV	.079
		X/CV	.076 .2740
MACH (2) = 2.000	BETAT (1) = -8.310	Z/BV	.079
		X/CV	.076 .2480
MACH (2) = 2.000	BETAT (2) = -6.270	Z/BV	.079
		X/CV	.076 .2990
MACH (2) = 2.000	BETAT (3) = -4.230	Z/BV	.079
		X/CV	.076 .3460
MACH (2) = 2.000	BETAT (4) = 3.920	Z/BV	.079
		X/CV	.076 .3530

AMES 97-707 1A9 O2A + S3 + T9 APU INLET

(RBOP08)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (5) = 5.960	Z/BV	.079
		X/CV	
		.076	.2250
MACH (2) = 2.000	BETAT (6) = 8.010	Z/BV	.079
		X/CV	
		.076	.1800

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1499

AMES 97-707 1A9 Q2A + S3 + T9 APU INLET

(RBOP09) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (1) = -8.160	Z/BV .079 X/CV .076 .3310
MACH (1) = 1.555 BETAT (2) = -6.170	Z/BV .079 X/CV .076 .3190
MACH (1) = 1.555 BETAT (3) = -4.180	Z/BV .079 X/CV .076 .4280
MACH (1) = 1.555 BETAT (4) = 3.640	Z/BV .079 X/CV .076 .5160
MACH (1) = 1.555 BETAT (5) = 5.690	Z/BV .079 X/CV .076 .3910
MACH (1) = 1.555 BETAT (6) = 7.740	Z/BV .079 X/CV .076 .3690
MACH (2) = 2.000 BETAT (1) = -8.340	Z/BV .079 X/CV .076 .2770
MACH (2) = 2.000 BETAT (2) = -6.300	Z/BV .079 X/CV .076 .3380
MACH (2) = 2.000 BETAT (3) = -4.250	Z/BV .079 X/CV .076 .3930
MACH (2) = 2.000 BETAT (4) = 3.930	Z/BV .079 X/CV .076 .4260

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBOF09)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (5) = 8.020

Z/BV .079

X/CV

.076 .2210

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1501

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP10) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.200	Z/BV	.079
		X/CV	
		.076	.3590
MACH (1) = 1.555	BETAT (2) = -6.210	Z/BV	.079
		X/CV	
		.076	.3730
MACH (1) = 1.555	BETAT (3) = -4.220	Z/BV	.079
		X/CV	
		.076	.4580
MACH (1) = 1.555	BETAT (4) = 3.650	Z/BV	.079
		X/CV	
		.076	.5250
MACH (1) = 1.555	BETAT (5) = 5.710	Z/BV	.079
		X/CV	
		.076	.4370
MACH (1) = 1.555	BETAT (6) = 7.770	Z/BV	.079
		X/CV	
		.076	.4000
MACH (2) = 2.000	BETAT (1) = -8.390	Z/BV	.079
		X/CV	
		.076	.3140
MACH (2) = 2.000	BETAT (2) = -6.330	Z/BV	.079
		X/CV	
		.076	.3710
MACH (2) = 2.000	BETAT (3) = -4.280	Z/BV	.079
		X/CV	
		.076	.4470
MACH (2) = 2.000	BETAT (4) = -.170	Z/BV	.079
		X/CV	
		.076	.6080

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP10)

SECTION (1)APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (5) = 3.940	Z/BV	.079
		X/CV	
		.076	.4710
MACH (2) = 2.000	BETAT (6) = 5.980	Z/BV	.079
		X/CV	
		.076	.3110
MACH (2) = 2.000	BETAT (7) = 8.050	Z/BV	.079
		X/CV	
		.076	.2470

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1503

AMES 97-707 IA9 02A + S3 + T9 APU INLET

(RBOP11) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDEFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.420	Z/BV	.079
		X/CV	
		.076	.3350
MACH (1) = 1.555	BETAT (2) = -6.360	Z/BV	.079
		X/CV	
		.076	.3650
MACH (1) = 1.555	BETAT (3) = -4.310	Z/BV	.079
		X/CV	
		.076	.4550
MACH (1) = 1.555	BETAT (4) = -.180	Z/BV	.079
		X/CV	
		.076	.6300
MACH (1) = 1.555	BETAT (5) = 3.940	Z/BV	.079
		X/CV	
		.076	.5110
MACH (1) = 1.555	BETAT (6) = 6.000	Z/BV	.079
		X/CV	
		.076	.4050
MACH (1) = 1.555	BETAT (7) = 8.060	Z/BV	.079
		X/CV	
		.076	.3510
MACH (2) = 2.000	BETAT (1) = -8.390	Z/BV	.079
		X/CV	
		.076	.3150
MACH (2) = 2.000	BETAT (2) = -6.340	Z/BV	.079
		X/CV	
		.076	.3670
MACH (2) = 2.000	BETAT (3) = -4.290	Z/BV	.079
		X/CV	
		.076	.4420

AMES 97-707 1A9 Q2A + S3 + T9 APU INLET

(RBCP11)

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (4) = -.180	Z/BV .079
	X/CV
	.076 .6070
MACH (2) = 2.000 BETAT (5) = 3.930	Z/BV .079
	X/CV
	.076 .4850
MACH (2) = 2.000 BETAT (6) = 5.980	Z/BV .079
	X/CV
	.076 .3290
MACH (2) = 2.000 BETAT (7) = 8.040	Z/BV .079
	X/CV
	.076 .2420

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1505

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP12) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (1) = -8.350	Z/BV .079 X/CV .3020 .076 .3020
MACH (1) = 1.555 BETAT (2) = -6.310	Z/BV .079 X/CV .2830 .076 .2830
MACH (1) = 1.555 BETAT (3) = -4.260	Z/BV .079 X/CV .4050 .076 .4050
MACH (1) = 1.555 BETAT (4) = -.170	Z/BV .079 X/CV .5500 .076 .5500
MACH (1) = 1.555 BETAT (5) = 3.930	Z/BV .079 X/CV .4790 .076 .4790
MACH (1) = 1.555 BETAT (6) = 5.980	Z/BV .079 X/CV .3190 .076 .3190
MACH (1) = 1.555 BETAT (7) = 8.020	Z/BV .079 X/CV .3060 .076 .3060
MACH (2) = 2.000 BETAT (1) = -8.320	Z/BV .079 X/CV .2520 .076 .2520
MACH (2) = 2.000 BETAT (2) = -6.280	Z/BV .079 X/CV .2890 .076 .2890
MACH (2) = 2.000 BETAT (3) = -4.240	Z/BV .079 X/CV .3360 .076 .3360

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP12)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -0.170	Z/BV	.079
		X/CV	
		.076	.5240
MACH (2) = 2.000	BETAT (5) = 3.920	Z/BV	.079
		X/CV	
		.076	.3280
MACH (2) = 2.000	BETAT (6) = 5.960	Z/BV	.079
		X/CV	
		.076	.2250
MACH (2) = 2.000	BETAT (7) = 8.010	Z/BV	.079
		X/CV	
		.076	.1920

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 Q2A + S3 + T9 APU INLET

PAGE 1507

(RBOF13) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.310	Z/BV	.079
		X/CV	.4310
			.076
MACH (1) = 1.555	BETAT (2) = -6.280	Z/BV	.079
		X/CV	.3250
			.076
MACH (1) = 1.555	BETAT (3) = -4.240	Z/BV	.079
		X/CV	.4560
			.076
MACH (1) = 1.555	BETAT (4) = -.140	Z/BV	.079
		X/CV	.4960
			.076
MACH (1) = 1.555	BETAT (5) = 3.940	Z/BV	.079
		X/CV	.5000
			.076
MACH (1) = 1.555	BETAT (6) = 5.990	Z/BV	.079
		X/CV	.3740
			.076
MACH (1) = 1.555	BETAT (7) = 8.030	Z/BV	.079
		X/CV	.3980
			.076
MACH (2) = 2.000	BETAT (1) = -8.300	Z/BV	.079
		X/CV	.2210
			.076
MACH (2) = 2.000	BETAT (2) = -6.260	Z/BV	.079
		X/CV	.2210
			.076
MACH (2) = 2.000	BETAT (3) = -4.220	Z/BV	.079
		X/CV	.2660
			.076

AMES 97-707 1A9 O2A + S3 + T9 AFU INLET

(RBOP13)

SECTION (1) AFU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.140	Z/BV	.079
		X/CV	
		.076	.4560
MACH (2) = 2.000	BETAT (5) = 3.930	Z/BV	.079
		X/CV	
		.076	.2340
MACH (2) = 2.000	BETAT (6) = 5.980	Z/BV	.079
		X/CV	
		.076	.1610
MACH (2) = 2.000	BETAT (7) = 8.020	Z/BV	.079
		X/CV	
		.076	.1510

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1509

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP14) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	Z/BV	.079
		X/CV	.4710
		.076	.4710
MACH (1) = 1.555	BETAT (2) = -6.260	Z/BV	.079
		X/CV	.3730
		.076	.3730
MACH (1) = 1.555	BETAT (3) = -4.220	Z/BV	.079
		X/CV	.5450
		.076	.5450
MACH (1) = 1.555	BETAT (4) = -.120	Z/BV	.079
		X/CV	.5100
		.076	.5100
MACH (1) = 1.555	BETAT (5) = 3.950	Z/BV	.079
		X/CV	.5660
		.076	.5660
MACH (1) = 1.555	BETAT (6) = 6.000	Z/BV	.079
		X/CV	.3350
		.076	.3350
MACH (1) = 1.555	BETAT (7) = 8.040	Z/BV	.079
		X/CV	.3960
		.076	.3960
MACH (2) = 2.000	BETAT (1) = -8.290	Z/BV	.079
		X/CV	.2580
		.076	.2580
MACH (2) = 2.000	BETAT (2) = -6.250	Z/BV	.079
		X/CV	.1940
		.076	.1940
MACH (2) = 2.000	BETAT (3) = -4.200	Z/BV	.079
		X/CV	.2720
		.076	.2720

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBOP14)

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (4) = - .130	Z/BV .079
	X/CV .4500
	.076 .4500
MACH (2) = 2.000 BETAT (5) = 3.950	Z/BV .079
	X/CV .2020
	.076 .2020
MACH (2) = 2.000 BETAT (6) = 5.990	Z/BV .079
	X/CV .1620
	.076 .1620
MACH (2) = 2.000 BETAT (7) = 8.040	Z/BV .079
	X/CV .3360
	.076 .3360

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1511

AMES 97-707 1A9 02A + S3 + T9 APU INLET

(RBOP15) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUOFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	Z/BV	.079
		X/CV	.076
			.4650
MACH (1) = 1.555	BETAT (2) = -6.280	Z/BV	.079
		X/CV	.076
			.4210
MACH (1) = 1.555	BETAT (3) = -4.230	Z/BV	.079
		X/CV	.076
			.3900
MACH (1) = 1.555	BETAT (4) = -.120	Z/BV	.079
		X/CV	.076
			.5580
MACH (1) = 1.555	BETAT (5) = 3.970	Z/BV	.079
		X/CV	.076
			.4520
MACH (1) = 1.555	BETAT (6) = 6.030	Z/BV	.079
		X/CV	.076
			.4890
MACH (1) = 1.555	BETAT (7) = 8.080	Z/BV	.079
		X/CV	.076
			.3660
MACH (2) = 2.000	BETAT (1) = -6.260	Z/BV	.079
		X/CV	.076
			.2020
MACH (2) = 2.000	BETAT (2) = -4.210	Z/BV	.079
		X/CV	.076
			.3370
MACH (2) = 2.000	BETAT (3) = -.130	Z/BV	.079
		X/CV	.076
			.4870

AMES 97-707 1A9 C2A + S3 + T9 APU INLET

(RBCP15)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = 3.970	Z/BV	.079
		X/CV	
		.076	.3060
MACH (2) = 2.000	BETAT (5) = 6.020	Z/BV	.079
		X/CV	
		.076	.1370
MACH (2) = 2.000	BETAT (6) = 8.070	Z/BV	.079
		X/CV	
		.076	.4250

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1513

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBOP16) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.350	Z/BV	.079
		X/CV	
		.076	.4750
MACH (1) = 1.555	BETAT (2) = -6.290	Z/BV	.079
		X/CV	
		.076	.4480
MACH (1) = 1.555	BETAT (3) = -4.240	Z/BV	.079
		X/CV	
		.076	.4690
MACH (1) = 1.555	BETAT (4) = -.110	Z/BV	.079
		X/CV	
		.076	.6050
MACH (1) = 1.555	BETAT (5) = 4.000	Z/BV	.079
		X/CV	
		.076	.4540
MACH (1) = 1.555	BETAT (6) = 6.060	Z/BV	.079
		X/CV	
		.076	.4810
MACH (1) = 1.555	BETAT (7) = 8.120	Z/BV	.079
		X/CV	
		.076	.4550
MACH (2) = 2.000	BETAT (1) = -8.340	Z/BV	.079
		X/CV	
		.076	.5570
MACH (2) = 2.000	BETAT (2) = -6.270	Z/BV	.079
		X/CV	
		.076	.4390
MACH (2) = 2.000	BETAT (3) = -4.220	Z/BV	.079
		X/CV	
		.076	.3960

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1514

AMES 97-707 IA9 C2A + S3 + T9 APU INLET

(RBOP16)

SECTION (1)APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.120	Z/BV	.079
		X/CV	
		.076	.5360
MACH (2) = 2.000	BETAT (5) = 3.990	Z/BV	.079
		X/CV	
		.076	.3420
MACH (2) = 2.000	BETAT (6) = 6.050	Z/BV	.079
		X/CV	
		.076	.3950
MACH (2) = 2.000	BETAT (7) = 8.110	Z/BV	.079
		X/CV	
		.076	.4150

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1515

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBOP17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.410	Z/BV	.079
		X/CV	.3370
		.076	.3370
MACH (1) = 1.555	BETAT (2) = -6.360	Z/BV	.079
		X/CV	.3620
		.076	.3620
MACH (1) = 1.555	BETAT (3) = -4.300	Z/BV	.079
		X/CV	.4470
		.076	.4470
MACH (1) = 1.555	BETAT (4) = -.180	Z/BV	.079
		X/CV	.6330
		.076	.6330
MACH (1) = 1.555	BETAT (5) = 3.930	Z/BV	.079
		X/CV	.5180
		.076	.5180
MACH (1) = 1.555	BETAT (6) = 5.990	Z/BV	.079
		X/CV	.4310
		.076	.4310
MACH (1) = 1.555	BETAT (7) = 8.050	Z/BV	.079
		X/CV	.3870
		.076	.3870
MACH (2) = 2.000	BETAT (1) = -8.380	Z/BV	.079
		X/CV	.3000
		.076	.3000
MACH (2) = 2.000	BETAT (2) = -6.330	Z/BV	.079
		X/CV	.3810
		.076	.3810
MACH (2) = 2.000	BETAT (3) = -4.280	Z/BV	.079
		X/CV	.4390
		.076	.4390

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOF17)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -0.170	Z/BV	.079
		X/CV	
		.076	.6240
MACH (2) = 2.000	BETAT (5) = 3.930	Z/BV	.079
		X/CV	
		.076	.4900
MACH (2) = 2.000	BETAT (6) = 5.980	Z/BV	.079
		X/CV	
		.076	.3400
MACH (2) = 2.000	BETAT (7) = 8.040	Z/BV	.079
		X/CV	
		.076	.2470

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1517

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP18) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.340	Z/BV	.079
		X/CV	
		.076	.3040
MACH (1) = 1.555	BETAT (2) = -6.300	Z/BV	.079
		X/CV	
		.076	.2810
MACH (1) = 1.555	BETAT (3) = -4.250	Z/BV	.079
		X/CV	
		.076	.4070
MACH (1) = 1.555	BETAT (4) = -.160	Z/BV	.079
		X/CV	
		.076	.5500
MACH (1) = 1.555	BETAT (5) = 3.930	Z/BV	.079
		X/CV	
		.076	.4900
MACH (1) = 1.555	BETAT (6) = 5.980	Z/BV	.079
		X/CV	
		.076	.3350
MACH (1) = 1.555	BETAT (7) = 8.020	Z/BV	.079
		X/CV	
		.076	.3470
MACH (2) = 2.000	BETAT (1) = -8.320	Z/BV	.079
		X/CV	
		.076	.2450
MACH (2) = 2.000	BETAT (2) = -6.270	Z/BV	.079
		X/CV	
		.076	.2940
MACH (2) = 2.000	BETAT (3) = -4.230	Z/BV	.079
		X/CV	
		.076	.3430

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBCP18)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.160	Z/BV	.079
		X/CV	
		.076	.5420
MACH (2) = 2.000	BETAT (5) = 3.920	Z/BV	.079
		X/CV	
		.076	.3390
MACH (2) = 2.000	BETAT (6) = 5.960	Z/BV	.079
		X/CV	
		.076	.2190
MACH (2) = 2.000	BETAT (7) = 8.010	Z/BV	.079
		X/CV	
		.076	.1880

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1519

AMES 97-707 IA9 C2A + S3 + T9 APU INLET

(RBOP19) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	Z/BV	.079
		X/CV	
		.076	.4490
MACH (1) = 1.555	BETAT (2) = -6.270	Z/BV	.079
		X/CV	
		.076	.3340
MACH (1) = 1.555	BETAT (3) = -4.240	Z/BV	.079
		X/CV	
		.076	.4460
MACH (1) = 1.555	BETAT (4) = -.140	Z/BV	.079
		X/CV	
		.076	.4990
MACH (1) = 1.555	BETAT (5) = 3.950	Z/BV	.079
		X/CV	
		.076	.4980
MACH (1) = 1.555	BETAT (6) = 5.990	Z/BV	.079
		X/CV	
		.076	.3370
MACH (1) = 1.555	BETAT (7) = 8.040	Z/BV	.079
		X/CV	
		.076	.3980
MACH (2) = 2.000	BETAT (1) = -8.300	Z/BV	.079
		X/CV	
		.076	.2180
MACH (2) = 2.000	BETAT (2) = -6.260	Z/BV	.079
		X/CV	
		.076	.2200
MACH (2) = 2.000	BETAT (3) = -4.220	Z/BV	.079
		X/CV	
		.076	.2670

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBOF19)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.140	Z/BV	.079
		X/CV	
		.076	.4510
MACH (2) = 2.000	BETAT (5) = 3.930	Z/BV	.079
		X/CV	
		.076	.2330
MACH (2) = 2.000	BETAT (6) = 5.980	Z/BV	.079
		X/CV	
		.076	.1600
MACH (2) = 2.000	BETAT (7) = 8.020	Z/BV	.079
		X/CV	
		.076	.1500

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1521

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP20) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	Z/BV	.079
		X/CV	
		.076	.4640
MACH (1) = 1.555	BETAT (2) = -6.270	Z/BV	.079
		X/CV	
		.076	.3580
MACH (1) = 1.555	BETAT (3) = -4.220	Z/BV	.079
		X/CV	
		.076	.5300
MACH (1) = 1.555	BETAT (4) = -.130	Z/BV	.079
		X/CV	
		.076	.5090
MACH (1) = 1.555	BETAT (5) = 3.960	Z/BV	.079
		X/CV	
		.076	.5580
MACH (1) = 1.555	BETAT (6) = 6.010	Z/BV	.079
		X/CV	
		.076	.3440
MACH (1) = 1.555	BETAT (7) = 8.080	Z/BV	.079
		X/CV	
		.076	.3620
MACH (2) = 2.000	BETAT (1) = -8.280	Z/BV	.079
		X/CV	
		.076	.2960
MACH (2) = 2.000	BETAT (2) = -6.240	Z/BV	.079
		X/CV	
		.076	.1960
MACH (2) = 2.000	BETAT (3) = -4.200	Z/BV	.079
		X/CV	
		.076	.2770

AMES 97-707 1A9 O2A + S3 + T9 APU INLET

(RBOF20)

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (4) = -.130	Z/BV .079
	X/CV .076 .4490
MACH (2) = 2.000 BETAT (5) = 3.950	Z/BV .079
	X/CV .076 .2000
MACH (2) = 2.000 BETAT (6) = 5.990	Z/BV .079
	X/CV .076 .1450
MACH (2) = 2.000 BETAT (7) = 8.040	Z/BV .079
	X/CV .076 .3190

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1523

AMES 97-707 IA9 C2A + S3 + T9 APU INLET

(RBOP21) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	Z/BV	.079
		X/CV	.076
			.4620
MACH (1) = 1.555	BETAT (2) = -6.290	Z/BV	.079
		X/CV	.076
			.4150
MACH (1) = 1.555	BETAT (3) = -4.230	Z/BV	.079
		X/CV	.076
			.4010
MACH (1) = 1.555	BETAT (4) = -1.120	Z/BV	.079
		X/CV	.076
			.5410
MACH (1) = 1.555	BETAT (5) = 3.980	Z/BV	.079
		X/CV	.076
			.4370
MACH (1) = 1.555	BETAT (6) = 6.040	Z/BV	.079
		X/CV	.076
			.4850
MACH (1) = 1.555	BETAT (7) = 8.110	Z/BV	.079
		X/CV	.076
			.3540
MACH (2) = 2.000	BETAT (1) = -8.310	Z/BV	.079
		X/CV	.076
			.5290
MACH (2) = 2.000	BETAT (2) = -6.260	Z/BV	.079
		X/CV	.076
			.2000
MACH (2) = 2.000	BETAT (3) = -4.210	Z/BV	.079
		X/CV	.076
			.3600

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP21)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.120	Z/BV	.079
		X/CV	
		.076	.4800
MACH (2) = 2.000	BETAT (5) = 3.970	Z/BV	.079
		X/CV	
		.076	.2920
MACH (2) = 2.000	BETAT (6) = 6.020	Z/BV	.079
		X/CV	
		.076	.1230
MACH (2) = 2.000	BETAT (7) = 8.070	Z/BV	.079
		X/CV	
		.076	.4020

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1525

AMES 97-707 1A9 Q2A + S3 + T9 APU INLET

(RBOF22) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.360	Z/BV	.079
		X/CV	
		.076	.4860
MACH (1) = 1.555	BETAT (2) = -6.310	Z/BV	.079
		X/CV	
		.076	.4500
MACH (1) = 1.555	BETAT (3) = -4.230	Z/BV	.079
		X/CV	
		.076	.4740
MACH (1) = 1.555	BETAT (4) = -.110	Z/BV	.079
		X/CV	
		.076	.5950
MACH (1) = 1.555	BETAT (5) = 3.940	Z/BV	.079
		X/CV	
		.076	.4580
MACH (1) = 1.555	BETAT (6) = 6.060	Z/BV	.079
		X/CV	
		.076	.4890
MACH (1) = 1.555	BETAT (7) = 8.120	Z/BV	.079
		X/CV	
		.076	.4490
MACH (2) = 2.000	BETAT (1) = -8.330	Z/BV	.079
		X/CV	
		.076	.5560
MACH (2) = 2.000	BETAT (2) = -6.280	Z/BV	.079
		X/CV	
		.076	.3930
MACH (2) = 2.000	BETAT (3) = -4.220	Z/BV	.079
		X/CV	
		.076	.4120

AMES 97-707 1A9 O2A + S3 + T9 APU INLET

(RBOP22)

SECTION (1)APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.110	Z/BV	.079
		X/CV	
		.076	.5330
MACH (2) = 2.000	BETAT (5) = 4.000	Z/BV	.079
		X/CV	
		.076	.3370
MACH (2) = 2.000	BETAT (6) = 6.050	Z/BV	.079
		X/CV	
		.076	.4110
MACH (2) = 2.000	BETAT (7) = 8.110	Z/BV	.079
		X/CV	
		.076	.4000

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1527

AMES 97-707 IA9 Q2A + S3 + T9 APU INLET

(RBQP23) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (1) = -8.400	Z/BV .079 X/CV .076 .3340
MACH (1) = 1.555 BETAT (2) = -6.360	Z/BV .079 X/CV .076 .3590
MACH (1) = 1.555 BETAT (3) = -4.290	Z/BV .079 X/CV .076 .4490
MACH (1) = 1.555 BETAT (4) = -.170	Z/BV .079 X/CV .076 .6290
MACH (1) = 1.555 BETAT (5) = 3.940	Z/BV .079 X/CV .076 .5140
MACH (1) = 1.555 BETAT (6) = 8.060	Z/BV .079 X/CV .076 .3760
MACH (2) = 2.000 BETAT (1) = -8.380	Z/BV .079 X/CV .076 .3020
MACH (2) = 2.000 BETAT (2) = -6.330	Z/BV .079 X/CV .076 .3800
MACH (2) = 2.000 BETAT (3) = -4.280	Z/BV .079 X/CV .076 .4430
MACH (2) = 2.000 BETAT (4) = -.170	Z/BV .079 X/CV .076 .6270

AMES 97-707 IA9 C2A + S3 + T9 APU INLET

(RBOF23)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (5) = 3.930	Z/BV	.079
		X/CV	
		.076	.4950
MACH (2) = 2.000	BETAT (6) = 5.980	Z/BV	.079
		X/CV	
		.076	.3360
MACH (2) = 2.000	BETAT (7) = 8.040	Z/BV	.079
		X/CV	
		.076	.2430

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1529

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP24) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	Z/BV	.079
		X/CV	
		.076	.3030
MACH (1) = 1.555	BETAT (2) = -6.290	Z/BV	.079
		X/CV	
		.076	.2830
MACH (1) = 1.555	BETAT (3) = -4.240	Z/BV	.079
		X/CV	
		.076	.4050
MACH (1) = 1.555	BETAT (4) = -.150	Z/BV	.079
		X/CV	
		.076	.5480
MACH (1) = 1.555	BETAT (5) = 3.940	Z/BV	.079
		X/CV	
		.076	.4870
MACH (1) = 1.555	BETAT (6) = 5.980	Z/BV	.079
		X/CV	
		.076	.3350
MACH (1) = 1.555	BETAT (7) = 8.030	Z/BV	.079
		X/CV	
		.076	.3470
MACH (2) = 2.000	BETAT (1) = -8.310	Z/BV	.079
		X/CV	
		.076	.2430
MACH (2) = 2.000	BETAT (2) = -6.270	Z/BV	.079
		X/CV	
		.076	.2960
MACH (2) = 2.000	BETAT (3) = -4.230	Z/BV	.079
		X/CV	
		.076	.3400

AMES 97-707 1A9 O2A + S3 + T9 APU INLET

(RBOP24)

SECTION (1) APU INLET	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (4) = -1.160	Z/BV .079
	X/CV .076 .5400
MACH (2) = 2.000 BETAT (5) = 3.920	Z/BV .079
	X/CV .076 .3370
MACH (2) = 2.000 BETAT (6) = 5.960	Z/BV .079
	X/CV .076 .2270
MACH (2) = 2.000 BETAT (7) = 8.010	Z/BV .079
	X/CV .076 .1880

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1531

AMES 97-707 1A9 02A + S3 + T9 APU INLET

(RBOP25) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	Z/BV	.079
		X/CV	
		.076	.4440
MACH (1) = 1.555	BETAT (2) = -6.270	Z/BV	.079
		X/CV	
		.076	.3310
MACH (1) = 1.555	BETAT (3) = -4.240	Z/BV	.079
		X/CV	
		.076	.4460
MACH (1) = 1.555	BETAT (4) = -.130	Z/BV	.079
		X/CV	
		.076	.4940
MACH (1) = 1.555	BETAT (5) = 3.950	Z/BV	.079
		X/CV	
		.076	.5010
MACH (1) = 1.555	BETAT (6) = 5.990	Z/BV	.079
		X/CV	
		.076	.3450
MACH (1) = 1.555	BETAT (7) = 8.040	Z/BV	.079
		X/CV	
		.076	.3970
MACH (2) = 2.000	BETAT (1) = -8.290	Z/BV	.079
		X/CV	
		.076	.2150
MACH (2) = 2.000	BETAT (2) = -6.250	Z/BV	.079
		X/CV	
		.076	.2440
MACH (2) = 2.000	BETAT (3) = -4.210	Z/BV	.079
		X/CV	
		.076	.2730

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP25)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.140	Z/BV	.079
		X/CV	
		.076	.4620
MACH (2) = 2.000	BETAT (5) = 3.950	Z/BV	.079
		X/CV	
		.076	.2500
MACH (2) = 2.000	BETAT (6) = 8.020	Z/BV	.079
		X/CV	
		.076	.1570

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1533

AMES 97-707 IAS OCA + S3 + T9 APU INLET

(RBOP26) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
RUDDER = 15.000 ELEVON = .000
RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	Z/BV	.079
		X/CV	
		.076	.4670
MACH (1) = 1.555	BETAT (2) = -6.260	Z/BV	.079
		X/CV	
		.076	.3550
MACH (1) = 1.555	BETAT (3) = -4.220	Z/BV	.079
		X/CV	
		.076	.5210
MACH (1) = 1.555	BETAT (4) = -.120	Z/BV	.079
		X/CV	
		.076	.5060
MACH (1) = 1.555	BETAT (5) = 3.960	Z/BV	.079
		X/CV	
		.076	.5720
MACH (1) = 1.555	BETAT (6) = 6.010	Z/BV	.079
		X/CV	
		.076	.3360
MACH (1) = 1.555	BETAT (7) = 8.050	Z/BV	.079
		X/CV	
		.076	.3640
MACH (2) = 2.000	BETAT (1) = -8.280	Z/BV	.079
		X/CV	
		.076	.2440
MACH (2) = 2.000	BETAT (2) = -6.230	Z/BV	.079
		X/CV	
		.076	.2320
MACH (2) = 2.000	BETAT (3) = -4.200	Z/BV	.079
		X/CV	
		.076	.2470

AMES 97-757 IA9 O2A + S3 + T9 APU INLET

(RBCF26)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.120	Z/BV	.079
		X/CV	
		.076	.4820
MACH (2) = 2.000	BETAT (5) = 3.950	Z/BV	.079
		X/CV	
		.076	.2300
MACH (2) = 2.000	BETAT (6) = 5.990	Z/BV	.079
		X/CV	
		.076	.1740
MACH (2) = 2.000	BETAT (7) = 8.030	Z/BV	.079
		X/CV	
		.076	.3400

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1535

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP27) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	Z/BV	.079
		X/CV	
		.076	.4650
MACH (1) = 1.555	BETAT (2) = -6.270	Z/BV	.079
		X/CV	
		.076	.4210
MACH (1) = 1.555	BETAT (3) = -4.230	Z/BV	.079
		X/CV	
		.076	.4020
MACH (1) = 1.555	BETAT (4) = -.110	Z/BV	.079
		X/CV	
		.076	.5490
MACH (1) = 1.555	BETAT (5) = 3.990	Z/BV	.079
		X/CV	
		.076	.4530
MACH (1) = 1.555	BETAT (6) = 6.030	Z/BV	.079
		X/CV	
		.076	.4900
MACH (1) = 1.555	BETAT (7) = 8.090	Z/BV	.079
		X/CV	
		.076	.3780
MACH (2) = 2.000	BETAT (1) = -8.300	Z/BV	.079
		X/CV	
		.076	.4650
MACH (2) = 2.000	BETAT (2) = -6.250	Z/BV	.079
		X/CV	
		.076	.2550
MACH (2) = 2.000	BETAT (3) = -4.200	Z/BV	.079
		X/CV	
		.076	.3130

AMES 97-707 1A9 Q2A + S3 + T9 APU INLET

(RBOF27)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.120	Z/BV	.079
		X/CV	
		.076	.5200
MACH (2) = 2.000	BETAT (5) = 3.970	Z/BV	.079
		X/CV	
		.076	.3160
MACH (2) = 2.000	BETAT (6) = 6.030	Z/BV	.079
		X/CV	
		.076	.1420
MACH (2) = 2.000	BETAT (7) = 8.070	Z/BV	.079
		X/CV	
		.076	.4180

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1537

AMES 97-707 IA9 O2A + S3 + T9 APU INLET

(RBOP28) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 CRBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.350	Z/BV	.079
		X/CV	
		.076	.4840
MACH (1) = 1.555	BETAT (2) = -6.300	Z/BV	.079
		X/CV	
		.076	.4510
MACH (1) = 1.555	BETAT (3) = -4.230	Z/BV	.079
		X/CV	
		.076	.4620
MACH (1) = 1.555	BETAT (4) = -.110	Z/BV	.079
		X/CV	
		.076	.6030
MACH (1) = 1.555	BETAT (5) = 4.000	Z/BV	.079
		X/CV	
		.076	.4570
MACH (1) = 1.555	BETAT (6) = 6.060	Z/BV	.079
		X/CV	
		.076	.4810
MACH (1) = 1.555	BETAT (7) = 8.130	Z/BV	.079
		X/CV	
		.076	.4530
MACH (2) = 2.000	BETAT (1) = -8.320	Z/BV	.079
		X/CV	
		.076	.5880
MACH (2) = 2.000	BETAT (2) = -6.260	Z/BV	.079
		X/CV	
		.076	.3020
MACH (2) = 2.000	BETAT (3) = -4.210	Z/BV	.079
		X/CV	
		.076	.4280

AMES 97-707 1A9 O2A + S3 + T9 APU INLET

(RBOF28)

SECTION (1) APU INLET

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.110	Z/BV	.079
		X/CV	
		.076	.5600
MACH (2) = 2.000	BETAT (5) = 3.990	Z/BV	.079
		X/CV	
		.076	.3930
MACH (2) = 2.000	BETAT (6) = 6.050	Z/BV	.079
		X/CV	
		.076	.4060
MACH (2) = 2.000	BETAT (7) = 8.110	Z/BV	.079
		X/CV	
		.076	.4110

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1539

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX01) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	ALPHAT(1) = -8.400	X/LS	.985	1.000
		PHI		
		.000	-.2740	-.2980
		90.000	-.2870	
		180.000	-.2950	
		270.000	-.2950	
MACH (1) = 1.555	ALPHAT(2) = -6.330	X/LS	.985	1.000
		PHI		
		.000	-.2720	-.2940
		90.000	-.2800	
		180.000	-.2930	
		270.000	-.2920	
MACH (1) = 1.555	ALPHAT(3) = -4.250	X/LS	.985	1.000
		PHI		
		.000	-.2750	-.2910
		90.000	-.2690	
		180.000	-.2890	
		270.000	-.2880	
MACH (1) = 1.555	ALPHAT(4) = -2.190	X/LS	.985	1.000
		PHI		
		.000	-.2740	-.2880
		90.000	-.2680	
		180.000	-.2850	
		270.000	-.2840	
MACH (1) = 1.555	ALPHAT(5) = -.120	X/LS	.985	1.000
		PHI		
		.000	-.2750	-.2900
		90.000	-.2730	
		180.000	-.2880	
		270.000	-.2870	
MACH (1) = 1.555	ALPHAT(6) = 1.950	X/LS	.985	1.000
		PHI		
		.000	-.2800	-.2900
		90.000	-.2770	
		180.000	-.2930	
		270.000	-.2930	

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX11)

SECTION (1)SRM BOOSTER BASE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	ALPHAT(7) = 4.010	X/LS	.985 1.000
		PHI	
		.000	-.2870 -.2890
		90.000	-.2810
		180.000	-.2980
		270.000	-.2980
MACH (1) = 1.555	ALPHAT(8) = 6.060	X/LS	.985 1.000
		PHI	
		.000	-.2980 -.2900
		90.000	-.2890
		180.000	-.3030
		270.000	-.3030
MACH (1) = 1.555	ALPHAT(9) = 8.130	X/LS	.985 1.000
		PHI	
		.000	-.3150 -.3070
		90.000	-.3070
		180.000	-.3130
		270.000	-.3150
MACH (2) = 2.000	ALPHAT(1) = -8.360	X/LS	.985 1.000
		PHI	
		.000	-.2480 -.2570
		90.000	-.2500
		180.000	-.2520
		270.000	-.2520
MACH (2) = 2.000	ALPHAT(2) = -6.310	X/LS	.985 1.000
		PHI	
		.000	-.2480 -.2560
		90.000	-.2490
		180.000	-.2530
		270.000	-.2540
MACH (2) = 2.000	ALPHAT(3) = -4.250	X/LS	.985 1.000
		PHI	
		.000	-.2410 -.2520
		90.000	-.2450
		180.000	-.2510
		270.000	-.2520
MACH (2) = 2.000	ALPHAT(4) = -2.210	X/LS	.985 1.000
		PHI	
		.000	-.2440 -.2510
		90.000	-.2430
		180.000	-.2450
		270.000	-.2490

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1541

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX01)

SECTION (1)SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 ALPHAT(5) = -.160	X/LS .985 1.000
	PHI
	.000 -.2480 -.2540
	90.000 -.2460
	180.000 -.2510
	270.000 -.2530
MACH (2) = 2.000 ALPHAT(6) = 1.890	X/LS .985 1.000
	PHI
	.000 -.2530 -.2560
	90.000 -.2450
	180.000 -.2520
	270.000 -.2540
MACH (2) = 2.000 ALPHAT(7) = 3.930	X/LS .985 1.000
	PHI
	.000 -.2600 -.2540
	90.000 -.2510
	180.000 -.2590
	270.000 -.2590
MACH (2) = 2.000 ALPHAT(8) = 5.980	X/LS .985 1.000
	PHI
	.000 -.2560 -.2520
	90.000 -.2480
	180.000 -.2540
	270.000 -.2560
MACH (2) = 2.000 ALPHAT(9) = 8.020	X/LS .985 1.000
	PHI
	.000 -.2570 -.2540
	90.000 -.2510
	180.000 -.2560
	270.000 -.2580

AMES 97-757 IA9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX02) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5350 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDELR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.140
 X/LS .985 1.000
 PHI
 .000 -.3650 -.3630
 90.000 -.3530
 180.000 -.3610
 270.000 -.3630

MACH (1) = 1.555 BETAT (2) = -5.100
 X/LS .985 1.000
 PHI
 .000 -.3620 -.3610
 90.000 -.3480
 180.000 -.3560
 270.000 -.3590

MACH (1) = 1.555 BETAT (3) = -3.050
 X/LS .985 1.000
 PHI
 .000 -.3370 -.3360
 90.000 -.3210
 180.000 -.3340
 270.000 -.3370

MACH (1) = 1.555 BETAT (4) = 5.110
 X/LS .985 1.000
 PHI
 .000 -.3420 -.3380
 90.000 -.3310
 180.000 -.3450
 270.000 -.3440

MACH (1) = 1.555 BETAT (5) = 7.140
 X/LS .985 1.000
 PHI
 .000 -.3340 -.3320
 90.000 -.3160
 180.000 -.3390
 270.000 -.3380

MACH (1) = 1.555 BETAT (6) = 9.190
 X/LS .985 1.000
 PHI
 .000 -.3300 -.3310
 90.000 -.3100
 180.000 -.3360
 270.000 -.3360

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1543

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX02)

SECTION (1)SRM BOOSTER BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -8.320	X/LS	.985	1.000
	PHI		
	.000	-.2610	-.2610
	90.000	-.2510	
	180.000	-.2550	
	270.000	-.2620	
MACH (2) = 2.000 BETAT (2) = -6.270	X/LS	.985	1.000
	PHI		
	.000	-.2610	-.2610
	90.000	-.2510	
	180.000	-.2520	
	270.000	-.2610	
MACH (2) = 2.000 BETAT (3) = -4.210	X/LS	.985	1.000
	PHI		
	.000	-.2600	-.2620
	90.000	-.2520	
	180.000	-.2500	
	270.000	-.2590	
MACH (2) = 2.000 BETAT (4) = 3.990	X/LS	.985	1.000
	PHI		
	.000	-.2460	-.2390
	90.000	-.2430	
	180.000	-.2500	
	270.000	-.2490	
MACH (2) = 2.000 BETAT (5) = 6.060	X/LS	.985	1.000
	PHI		
	.000	-.2320	-.2310
	90.000	-.2210	
	180.000	-.2300	
	270.000	-.2340	
MACH (2) = 2.000 BETAT (6) = 8.120	X/LS	.985	1.000
	PHI		
	.000	-.2360	-.2310
	90.000	-.2280	
	180.000	-.2360	
	270.000	-.2370	

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX13) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.120	X/LS	.985	1.000
		PHI		
		.000	-.3510	-.3480
		90.000	-.3380	
		180.000	-.3440	
		270.000	-.3490	
MACH (1) = 1.555	BETAT (2) = -5.070	X/LS	.985	1.000
		PHI		
		.000	-.3470	-.3480
		90.000	-.3320	
		180.000	-.3400	
		270.000	-.3450	
MACH (1) = 1.555	BETAT (3) = -3.050	X/LS	.985	1.000
		PHI		
		.000	-.3220	-.3240
		90.000	-.3070	
		180.000	-.3200	
		270.000	-.3240	
MACH (1) = 1.555	BETAT (4) = 5.080	X/LS	.985	1.000
		PHI		
		.000	-.3310	-.3280
		90.000	-.3170	
		180.000	-.3390	
		270.000	-.3360	
MACH (1) = 1.555	BETAT (5) = 7.110	X/LS	.985	1.000
		PHI		
		.000	-.3200	-.3140
		90.000	-.3030	
		180.000	-.3270	
		270.000	-.3260	
MACH (1) = 1.555	BETAT (6) = 9.140	X/LS	.985	1.000
		PHI		
		.000	-.3200	-.3190
		90.000	-.3000	
		180.000	-.3240	
		270.000	-.3240	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1545

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX13)

SECTION (1) SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.300	X/LS .985 1.000
	PHI
	.000 -.2600 -.2610
	90.000 -.2550
	180.000 -.2550
	270.000 -.2620
MACH (2) = 2.000 BETAT (2) = -6.250	X/LS .985 1.000
	PHI
	.000 -.2620 -.2640
	90.000 -.2510
	180.000 -.2570
	270.000 -.2640
MACH (2) = 2.000 BETAT (3) = -4.200	X/LS .985 1.000
	PHI
	.000 -.2600 -.2610
	90.000 -.2500
	180.000 -.2530
	270.000 -.2600
MACH (2) = 2.000 BETAT (4) = 3.970	X/LS .985 1.000
	PHI
	.000 -.2420 -.2390
	90.000 -.2390
	180.000 -.2460
	270.000 -.2460
MACH (2) = 2.000 BETAT (5) = 6.030	X/LS .985 1.000
	PHI
	.000 -.2280 -.2200
	90.000 -.2190
	180.000 -.2310
	270.000 -.2310
MACH (2) = 2.000 BETAT (6) = 8.080	X/LS .985 1.000
	PHI
	.000 -.2320 -.2230
	90.000 -.2230
	180.000 -.2310
	270.000 -.2320

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX14) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.090

X/LS .985 1.000
 PHI
 .000 -.3360 -.3350
 90.000 -.3210
 180.000 -.3260
 270.000 -.3330

MACH (1) = 1.555 BETAT (2) = -5.070

X/LS .985 1.000
 PHI
 .000 -.3340 -.3350
 90.000 -.3160
 180.000 -.3260
 270.000 -.3310

MACH (1) = 1.555 BETAT (3) = -3.040

X/LS .985 1.000
 PHI
 .000 -.3110 -.3110
 90.000 -.2980
 180.000 -.3060
 270.000 -.3110

MACH (1) = 1.555 BETAT (4) = 5.060

X/LS .985 1.000
 PHI
 .000 -.3150 -.3160
 90.000 -.3040
 180.000 -.3280
 270.000 -.3270

MACH (1) = 1.555 BETAT (5) = 7.080

X/LS .985 1.000
 PHI
 .000 -.3070 -.3060
 90.000 -.2940
 180.000 -.3190
 270.000 -.3190

MACH (1) = 1.555 BETAT (6) = 9.100

X/LS .985 1.000
 PHI
 .000 -.3150 -.3120
 90.000 -.2940
 180.000 -.3140
 270.000 -.3160

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1547

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX04)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.270	X/LS	.985	1.000
	PHI		
	.000	-.2630	-.2610
	90.000	-.2550	
	180.000	-.2630	
	270.000	-.2650	
MACH (2) = 2.000 BETAT (2) = -6.240	X/LS	.985	1.000
	PHI		
	.000	-.2600	-.2610
	90.000	-.2520	
	180.000	-.2580	
	270.000	-.2620	
MACH (2) = 2.000 BETAT (3) = -4.200	X/LS	.985	1.000
	PHI		
	.000	-.2590	-.2600
	90.000	-.2500	
	180.000	-.2530	
	270.000	-.2580	
MACH (2) = 2.000 BETAT (4) = 3.950	X/LS	.985	1.000
	PHI		
	.000	-.2330	-.2320
	90.000	-.2290	
	180.000	-.2350	
	270.000	-.2350	
MACH (2) = 2.000 BETAT (5) = 5.990	X/LS	.985	1.000
	PHI		
	.000	-.2230	-.2200
	90.000	-.2170	
	180.000	-.2250	
	270.000	-.2260	
MACH (2) = 2.000 BETAT (6) = 8.030	X/LS	.985	1.000
	PHI		
	.000	-.2310	-.2250
	90.000	-.2220	
	180.000	-.2310	
	270.000	-.2320	

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX015) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	X/LS	.985	1.000
		PHI		
		.000	-.3290	-.3290
		90.000	-.3160	
		180.000	-.3220	
		270.000	-.3270	
MACH (1) = 1.555	BETAT (2) = -5.070	X/LS	.985	1.000
		PHI		
		.000	-.3280	-.3300
		90.000	-.3160	
		180.000	-.3230	
		270.000	-.3280	
MACH (1) = 1.555	BETAT (3) = -3.050	X/LS	.985	1.000
		PHI		
		.000	-.3020	-.3060
		90.000	-.2970	
		180.000	-.3030	
		270.000	-.3050	
MACH (1) = 1.555	BETAT (4) = 5.050	X/LS	.985	1.000
		PHI		
		.000	-.3100	-.2890
		90.000	-.3130	
		180.000	-.3180	
		270.000	-.3160	
MACH (1) = 1.555	BETAT (5) = 7.070	X/LS	.985	1.000
		PHI		
		.000	-.3090	-.2970
		90.000	-.2990	
		180.000	-.3140	
		270.000	-.3140	
MACH (1) = 1.555	BETAT (6) = 9.090	X/LS	.985	1.000
		PHI		
		.000	-.3140	-.3100
		90.000	-.2940	
		180.000	-.3100	
		270.000	-.3160	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1549

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX05)

SECTION (1)SRM BOOSTER BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -8.280	X/LS	.985	1.000
	PHI		
	.000	-.2580	-.2560
	90.000	-.2510	
	180.000	-.2580	
	270.000	-.2590	
MACH (2) = 2.000 BETAT (2) = -6.250	X/LS	.985	1.000
	PHI		
	.000	-.2620	-.2630
	90.000	-.2560	
	180.000	-.2610	
	270.000	-.2640	
MACH (2) = 2.000 BETAT (3) = -4.140	X/LS	.985	1.000
	PHI		
	.000	-.2620	-.2610
	90.000	-.2540	
	180.000	-.2590	
	270.000	-.2620	
MACH (2) = 2.000 BETAT (4) = 3.940	X/LS	.985	1.000
	PHI		
	.000	-.2260	-.2250
	90.000	-.2260	
	180.000	-.2290	
	270.000	-.2270	
MACH (2) = 2.000 BETAT (5) = 5.980	X/LS	.985	1.000
	PHI		
	.000	-.2200	-.2070
	90.000	-.2210	
	180.000	-.2230	
	270.000	-.2210	
MACH (2) = 2.000 BETAT (6) = 8.020	X/LS	.985	1.000
	PHI		
	.000	-.2320	-.2250
	90.000	-.2270	
	180.000	-.2320	
	270.000	-.2330	

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX46) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

X/LS .985 1.000
 PHI
 .000 -.3200 -.3200
 90.000 -.3140
 180.000 -.3130
 270.000 -.3190

MACH (1) = 1.555 BETAT (2) = -5.080

X/LS .985 1.000
 PHI
 .000 -.3170 -.3190
 90.000 -.3100
 180.000 -.3140
 270.000 -.3170

MACH (1) = 1.555 BETAT (3) = -3.060

X/LS .985 1.000
 PHI
 .000 -.2970 -.3040
 90.000 -.2890
 180.000 -.2890
 270.000 -.3020

MACH (1) = 1.555 BETAT (4) = 5.050

X/LS .985 1.000
 PHI
 .000 -.3040 -.2800
 90.000 -.3100
 180.000 -.3100
 270.000 -.3030

MACH (1) = 1.555 BETAT (5) = 7.060

X/LS .985 1.000
 PHI
 .000 -.3000 -.2930
 90.000 -.2840
 180.000 -.3020
 270.000 -.3030

MACH (1) = 1.555 BETAT (6) = 9.090

X/LS .985 1.000
 PHI
 .000 -.3070 -.3020
 90.000 -.2930
 180.000 -.3110
 270.000 -.3130

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1551

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX16)

SECTION (1)SRM BOOSTER BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -8.290	X/LS	.985	1.000
	PHI		
	.000	-.2530	-.2520
	90.000	-.2460	
	180.000	-.2530	
	270.000	-.2550	
MACH (2) = 2.000 BETAT (2) = -6.250	X/LS	.985	1.000
	PHI		
	.000	-.2580	-.2540
	90.000	-.2520	
	180.000	-.2570	
	270.000	-.2580	
MACH (2) = 2.000 BETAT (3) = -.130	X/LS	.985	1.000
	PHI		
	.000	-.2450	-.2510
	90.000	-.2440	
	180.000	-.2470	
	270.000	-.2500	
MACH (2) = 2.000 BETAT (4) = 3.950	X/LS	.985	1.000
	PHI		
	.000	-.2210	-.2160
	90.000	-.2240	
	180.000	-.2250	
	270.000	-.2230	
MACH (2) = 2.000 BETAT (5) = 5.980	X/LS	.985	1.000
	PHI		
	.000	-.2150	-.2010
	90.000	-.2170	
	180.000	-.2180	
	270.000	-.2090	

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX07) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.110	X/LS	.985	1.000
	PHI		
	.000	-.3220	-.3220
	90.000	-.3170	
	180.000	-.3140	
	270.000	-.3200	
MACH (1) = 1.555 BETAT (2) = -5.090	X/LS	.985	1.000
	PHI		
	.000	-.3180	-.3200
	90.000	-.3110	
	180.000	-.3110	
	270.000	-.3180	
MACH (1) = 1.555 BETAT (3) = -3.070	X/LS	.985	1.000
	PHI		
	.000	-.2970	-.3020
	90.000	-.2880	
	180.000	-.2930	
	270.000	-.2980	
MACH (1) = 1.555 BETAT (4) = 5.040	X/LS	.985	1.000
	PHI		
	.000	-.2920	-.2880
	90.000	-.2950	
	180.000	-.3040	
	270.000	-.3020	
MACH (1) = 1.555 BETAT (5) = 7.060	X/LS	.985	1.000
	PHI		
	.000	-.2740	-.2840
	90.000	-.2830	
	180.000	-.2910	
	270.000	-.2870	
MACH (1) = 1.555 BETAT (6) = 9.080	X/LS	.985	1.000
	PHI		
	.000	-.2920	-.2950
	90.000	-.2900	
	180.000	-.3020	
	270.000	-.2990	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1553

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX17)

SECTION (1) SRM BOOSTER BASE		DEPENDENT VARIABLE CP		
MACH (2) = 2.000	BETAT (1) = -8.310	X/LS	.985	1.000
		PHI		
		.000	-.2470	-.2550
		90.000	-.2460	
		180.000	-.2550	
MACH (2) = 2.000	BETAT (2) = -6.260	X/LS	.985	1.000
		PHI		
		.000	-.2540	-.2580
		90.000	-.2480	
		180.000	-.2580	
MACH (2) = 2.000	BETAT (3) = -4.230	X/LS	.985	1.000
		PHI		
		.000	-.2540	-.2540
		90.000	-.2490	
		180.000	-.2520	
MACH (2) = 2.000	BETAT (4) = 3.940	X/LS	.985	1.000
		PHI		
		.000	-.2260	-.2240
		90.000	-.2320	
		180.000	-.2340	
MACH (2) = 2.000	BETAT (5) = 5.970	X/LS	.985	1.000
		PHI		
		.000	-.2090	-.2040
		90.000	-.2130	
		180.000	-.2150	
MACH (2) = 2.000	BETAT (6) = 8.010	X/LS	.985	1.000
		PHI		
		.000	-.2060	-.2110
		90.000	-.2110	
		180.000	-.2130	
MACH (2) = 2.000	BETAT (6) = 8.010	X/LS	.985	1.000
		PHI		
		.000	-.2060	-.2110
		90.000	-.2110	
		180.000	-.2130	
MACH (2) = 2.000	BETAT (6) = 8.010	X/LS	.985	1.000
		PHI		
		.000	-.2060	-.2110
		90.000	-.2110	
		180.000	-.2130	
MACH (2) = 2.000	BETAT (6) = 8.010	X/LS	.985	1.000
		PHI		
		.000	-.2060	-.2110
		90.000	-.2110	
		180.000	-.2130	

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX08) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDDLK = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.130	X/LS	.985	1.000
		PHI		
		.000	-.3240	-.3250
		90.000	-.3190	
		180.000	-.3110	
		270.000	-.3220	
MACH (1) = 1.555	BETAT (2) = -6.150	X/LS	.985	1.000
		PHI		
		.000	-.3210	-.3250
		90.000	-.3100	
		180.000	-.3120	
		270.000	-.3220	
MACH (1) = 1.555	BETAT (3) = -3.070	X/LS	.985	1.000
		PHI		
		.000	-.3000	-.3130
		90.000	-.2860	
		180.000	-.3100	
		270.000	-.3100	
MACH (1) = 1.555	BETAT (4) = 5.030	X/LS	.985	1.000
		PHI		
		.000	-.2780	-.2950
		90.000	-.2910	
		180.000	-.2960	
		270.000	-.2900	
MACH (1) = 1.555	BETAT (5) = 7.050	X/LS	.985	1.000
		PHI		
		.000	-.2810	-.2970
		90.000	-.2920	
		180.000	-.2970	
		270.000	-.2900	
MACH (1) = 1.555	BETAT (6) = 9.070	X/LS	.985	1.000
		PHI		
		.000	-.2950	-.3010
		90.000	-.2930	
		180.000	-.3020	
		270.000	-.2990	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1555

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX08)

SECTION (1) SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.310	X/LS .985 1.000
	PHI
	.000 -.2390 -.2460
	90.000 -.2390 .
	180.000 -.2460
	270.000 -.2460
MACH (2) = 2.000 BETAT (2) = -6.270	X/LS .985 1.000
	PHI
	.000 -.2470 -.2550
	90.000 -.2490
	180.000 -.2550
	270.000 -.2550
MACH (2) = 2.000 BETAT (3) = -4.230	X/LS .985 1.000
	PHI
	.000 -.2500 -.2570
	90.000 -.2490
	180.000 -.2540
	270.000 -.2560
MACH (2) = 2.000 BETAT (4) = 3.920	X/LS .985 1.000
	PHI
	.000 -.2310 -.2280
	90.000 -.2370
	180.000 -.2380
	270.000 -.2360
MACH (2) = 2.000 BETAT (5) = 5.960	X/LS .985 1.000
	PHI
	.000 -.2070 -.2020
	90.000 -.2100
	180.000 -.2110
	270.000 -.2060
MACH (2) = 2.000 BETAT (6) = 8.010	X/LS .985 1.000
	PHI
	.000 -.2030 -.2060
	90.000 -.2090
	180.000 -.2100
	270.000 -.2070

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1556

AMES 97-707 1AS Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX09) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.160	X/LS	.985	1.000
		PHI		
		.000	-.3280	-.3290
		90.000	-.3200	
		180.000	-.3140	
		270.000	-.3280	
MACH (1) = 1.555	BETAT (2) = -6.170	X/LS	.985	1.000
		PHI		
		.000	-.3190	-.3340
		90.000	-.3120	
		180.000	-.3300	
		270.000	-.3320	
MACH (1) = 1.555	BETAT (3) = -4.180	X/LS	.985	1.000
		PHI		
		.000	-.3080	-.3330
		90.000	-.3110	
		180.000	-.3280	
		270.000	-.3280	
MACH (1) = 1.555	BETAT (4) = 3.640	X/LS	.985	1.000
		PHI		
		.000	-.2820	-.3060
		90.000	-.2900	
		180.000	-.3030	
		270.000	-.3010	
MACH (1) = 1.555	BETAT (5) = 5.690	X/LS	.985	1.000
		PHI		
		.000	-.2860	-.2980
		90.000	-.2930	
		180.000	-.2980	
		270.000	-.2940	
MACH (1) = 1.555	BETAT (6) = 7.740	X/LS	.985	1.000
		PHI		
		.000	-.2980	-.3100
		90.000	-.2970	
		180.000	-.3070	
		270.000	-.3060	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1557

AMES 97-757 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOXU9)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -8.340	X/LS	.985	1.000
		PHI		
		.000	-.2400	-.2480
		90.000	-.2400	
		180.000	-.2500	
		270.000	-.2480	
MACH (2) = 2.000	BETAT (2) = -6.300	X/LS	.985	1.000
		PHI		
		.000	-.2480	-.2560
		90.000	-.2460	
		180.000	-.2540	
		270.000	-.2540	
MACH (2) = 2.000	BETAT (3) = -4.250	X/LS	.985	1.000
		PHI		
		.000	-.2510	-.2550
		90.000	-.2470	
		180.000	-.2520	
		270.000	-.2550	
MACH (2) = 2.000	BETAT (4) = 3.930	X/LS	.985	1.000
		PHI		
		.000	-.2330	-.2370
		90.000	-.2390	
		180.000	-.2410	
		270.000	-.2400	
MACH (2) = 2.000	BETAT (5) = 8.020	X/LS	.985	1.000
		PHI		
		.000	-.2090	-.2160
		90.000	-.2130	
		180.000	-.2190	
		270.000	-.2170	

AMES 97-737 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX10) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.200	X/LS	.985	1.000
	PHI		
	.000	-.3290	-.3340
	90.000	-.3210	
	180.000	-.3110	
	270.000	-.3300	
MACH (1) = 1.555 BETAT (2) = -6.210	X/LS	.985	1.000
	PHI		
	.000	-.3240	-.3330
	90.000	-.3110	
	180.000	-.3220	
	270.000	-.3290	
MACH (1) = 1.555 BETAT (3) = -4.220	X/LS	.985	1.000
	PHI		
	.000	-.3090	-.3310
	90.000	-.3120	
	180.000	-.3280	
	270.000	-.3290	
MACH (1) = 1.555 BETAT (4) = 3.650	X/LS	.985	1.000
	PHI		
	.000	-.2940	-.3150
	90.000	-.2960	
	180.000	-.3120	
	270.000	-.3110	
MACH (1) = 1.555 BETAT (5) = 5.710	X/LS	.985	1.000
	PHI		
	.000	-.2980	-.3120
	90.000	-.2970	
	180.000	-.3100	
	270.000	-.3100	
MACH (1) = 1.555 BETAT (6) = 7.770	X/LS	.985	1.000
	PHI		
	.000	-.3090	-.3170
	90.000	-.2980	
	180.000	-.3150	
	270.000	-.3140	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1559

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBox10)

SECTION (1)SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.390	X/LS .985 1.000
	PHI
	.000 -.2390 -.2400
	90.000 -.2290
	180.000 -.2380
	270.000 -.2400
MACH (2) = 2.000 BETAT (2) = -6.330	X/LS .985 1.000
	PHI
	.000 -.2460 -.2470
	90.000 -.2390
	180.000 -.2440
	270.000 -.2480
MACH (2) = 2.000 BETAT (3) = -4.280	X/LS .985 1.000
	PHI
	.000 -.2520 -.2540
	90.000 -.2470
	180.000 -.2520
	270.000 -.2550
MACH (2) = 2.000 BETAT (4) = -.170	X/LS .985 1.000
	PHI
	.000 -.2480 -.2570
	90.000 -.2500
	180.000 -.2530
	270.000 -.2510
MACH (2) = 2.000 BETAT (5) = 3.940	X/LS .985 1.000
	PHI
	.000 -.2430 -.2470
	90.000 -.2440
	180.000 -.2450
	270.000 -.2460
MACH (2) = 2.000 BETAT (6) = 5.980	X/LS .985 1.000
	PHI
	.000 -.2150 -.2260
	90.000 -.2240
	180.000 -.2210
	270.000 -.2250
MACH (2) = 2.000 BETAT (7) = 8.050	X/LS .985 1.000
	PHI
	.000 -.2050 -.2230
	90.000 -.2150
	180.000 -.2200
	270.000 -.2190

AMES 97-757 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX11) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDDL = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.420

X/LS .985 1.000
 PHI
 .000 -.3330 -.3360
 90.000 -.3280
 180.000 -.3150
 270.000 -.3340

MACH (1) = 1.555 BETAT (2) = -6.360

X/LS .985 1.000
 PHI
 .000 -.3290 -.3370
 90.000 -.3150
 180.000 -.3240
 270.000 -.3330

MACH (1) = 1.555 BETAT (3) = -4.310

X/LS .985 1.000
 PHI
 .000 -.3140 -.3350
 90.000 -.3170
 180.000 -.3340
 270.000 -.3340

MACH (1) = 1.555 BETAT (4) = -1.180

X/LS .985 1.000
 PHI
 .000 -.2760 -.2980
 90.000 -.2840
 180.000 -.2950
 270.000 -.2950

MACH (1) = 1.555 BETAT (5) = 3.940

X/LS .985 1.000
 PHI
 .000 -.2980 -.3200
 90.000 -.3000
 180.000 -.3160
 270.000 -.3140

MACH (1) = 1.555 BETAT (6) = 6.000

X/LS .985 1.000
 PHI
 .000 -.3060 -.3180
 90.000 -.3050
 180.000 -.3150
 270.000 -.3140

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1561

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX11)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.060	X/LS	.985	1.000
	PHI		
	.000	-.3140	-.3250
	90.000	-.3030	
	180.000	-.3210	
	270.000	-.3210	
MACH (2) = 2.000 BETAT (1) = -8.390	X/LS	.985	1.000
	PHI		
	.000	-.2430	-.2450
	90.000	-.2340	
	180.000	-.2430	
	270.000	-.2450	
MACH (2) = 2.000 BETAT (2) = -6.340	X/LS	.985	1.000
	PHI		
	.000	-.2480	-.2490
	90.000	-.2400	
	180.000	-.2480	
	270.000	-.2500	
MACH (2) = 2.000 BETAT (3) = -4.290	X/LS	.985	1.000
	PHI		
	.000	-.2550	-.2550
	90.000	-.2500	
	180.000	-.2540	
	270.000	-.2560	
MACH (2) = 2.000 BETAT (4) = -.180	X/LS	.985	1.000
	PHI		
	.000	-.2500	-.2590
	90.000	-.2500	
	180.000	-.2530	
	270.000	-.2530	
MACH (2) = 2.000 BETAT (5) = 3.930	X/LS	.985	1.000
	PHI		
	.000	-.2380	-.2440
	90.000	-.2400	
	180.000	-.2410	
	270.000	-.2420	
MACH (2) = 2.000 BETAT (6) = 5.980	X/LS	.985	1.000
	PHI		
	.000	-.2170	-.2300
	90.000	-.2270	
	180.000	-.2270	
	270.000	-.2290	

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX11)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

X/LS	.985	1.000
PHI		
.000	-.2080	-.2260
90.000	-.2180	
180.000	-.2230	
270.000	-.2230	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1563

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX12) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350	X/LS	.985	1.000
	PHI		
	.000	-.3270	-.3270
	90.000	-.3230	
	180.000	-.3130	
	270.000	-.3240	
MACH (1) = 1.555 BETAT (2) = -6.310	X/LS	.985	1.000
	PHI		
	.000	-.3230	-.3270
	90.000	-.3150	
	180.000	-.3100	
	270.000	-.3240	
MACH (1) = 1.555 BETAT (3) = -4.260	X/LS	.985	1.000
	PHI		
	.000	-.3170	-.3270
	90.000	-.3010	
	180.000	-.3210	
	270.000	-.3240	
MACH (1) = 1.555 BETAT (4) = -.170	X/LS	.985	1.000
	PHI		
	.000	-.2750	-.2920
	90.000	-.2670	
	180.000	-.2880	
	270.000	-.2890	
MACH (1) = 1.555 BETAT (5) = 3.930	X/LS	.985	1.000
	PHI		
	.000	-.2870	-.3050
	90.000	-.2940	
	180.000	-.3020	
	270.000	-.3000	
MACH (1) = 1.555 BETAT (6) = 5.980	X/LS	.985	1.000
	PHI		
	.000	-.2770	-.3000
	90.000	-.2930	
	180.000	-.2970	
	270.000	-.2920	

AMES 97-757 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX12)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.020

X/LS	.985	1.000
PHI		
.000	-.2860	-.2990
90.000	-.2910	
180.000	-.2980	
270.000	-.2940	

MACH (2) = 2.000 BETAT (1) = -8.320

X/LS	.985	1.000
PHI		
.000	-.2370	-.2440
90.000	-.2390	
180.000	-.2450	
270.000	-.2440	

MACH (2) = 2.000 BETAT (2) = -6.280

X/LS	.985	1.000
PHI		
.000	-.2500	-.2560
90.000	-.2520	
180.000	-.2570	
270.000	-.2570	

MACH (2) = 2.000 BETAT (3) = -4.240

X/LS	.985	1.000
PHI		
.000	-.2490	-.2570
90.000	-.2490	
180.000	-.2540	
270.000	-.2560	

MACH (2) = 2.000 BETAT (4) = -1.170

X/LS	.985	1.000
PHI		
.000	-.2420	-.2530
90.000	-.2460	
180.000	-.2510	
270.000	-.2520	

MACH (2) = 2.000 BETAT (5) = 3.920

X/LS	.985	1.000
PHI		
.000	-.2290	-.2260
90.000	-.2340	
180.000	-.2360	
270.000	-.2350	

MACH (2) = 2.000 BETAT (6) = 5.960

X/LS	.985	1.000
PHI		
.000	-.2050	-.2040
90.000	-.2090	
180.000	-.2120	
270.000	-.2040	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1565

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX12)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.010

X/LS	.985	1.000
PHI		
.000	-.2030	-.2050
90.000	-.2090	
180.000	-.2110	
270.000	-.2060	

AMES 97-707 1A9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX13) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDDLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.310	X/LS	.985	1.000
		PHI		
		.000	-.3210	-.3200
		90.000	-.3150	
		180.000	-.3130	
		270.000	-.3210	
MACH (1) = 1.555	BETAT (2) = -6.280	X/LS	.985	1.000
		PHI		
		.000	-.3180	-.3180
		90.000	-.3120	
		180.000	-.3100	
		270.000	-.3170	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LS	.985	1.000
		PHI		
		.000	-.3100	-.3120
		90.000	-.3030	
		180.000	-.3070	
		270.000	-.3110	
MACH (1) = 1.555	BETAT (4) = -.140	X/LS	.985	1.000
		PHI		
		.000	-.2730	-.2860
		90.000	-.2690	
		180.000	-.2840	
		270.000	-.2850	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LS	.985	1.000
		PHI		
		.000	-.2960	-.2760
		90.000	-.3010	
		180.000	-.3040	
		270.000	-.2960	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LS	.985	1.000
		PHI		
		.000	-.2960	-.2850
		90.000	-.2960	
		180.000	-.3040	
		270.000	-.3010	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1567

AMES 97-757 IA9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX13)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.930	X/LS	.985	1.000
	PHI		
	.000	-.3040	-.2960
	90.000	-.2900	
	180.000	-.2980	
	270.000	-.3030	
MACH (2) = 2.000 BETAT (1) = -8.300	X/LS	.985	1.000
	PHI		
	.000	-.2550	-.2550
	90.000	-.2470	
	180.000	-.2550	
	270.000	-.2570	
MACH (2) = 2.000 BETAT (2) = -6.260	X/LS	.985	1.000
	PHI		
	.000	-.2600	-.2560
	90.000	-.2540	
	180.000	-.2590	
	270.000	-.2600	
MACH (2) = 2.000 BETAT (3) = -4.220	X/LS	.985	1.000
	PHI		
	.000	-.2560	-.2540
	90.000	-.2510	
	180.000	-.2550	
	270.000	-.2560	
MACH (2) = 2.000 BETAT (4) = -.140	X/LS	.985	1.000
	PHI		
	.000	-.2440	-.2500
	90.000	-.2430	
	180.000	-.2470	
	270.000	-.2490	
MACH (2) = 2.000 BETAT (5) = 3.930	X/LS	.985	1.000
	PHI		
	.000	.0000	.0000
	90.000	.0000	
	180.000	.0000	
	270.000	.0000	
MACH (2) = 2.000 BETAT (6) = 5.980	X/LS	.985	1.000
	PHI		
	.000	-.2050	-.1990
	90.000	-.2110	
	180.000	-.2130	
	270.000	-.2020	

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX13)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.020

X/LS	.985	1.000
PHI		
.000	-.2150	-.2140
90.000	-.2160	
180.000	-.2200	
270.000	-.2220	

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX14) (23 MAY 73.)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300	X/LS	.985	1.000
	PHI		
	.000	-.3450	-.3390
	90.000	-.3270	
	180.000	-.3370	
	270.000	-.3430	
MACH (1) = 1.555 BETAT (2) = -6.260	X/LS	.985	1.000
	PHI		
	.000	-.3380	-.3370
	90.000	-.3220	
	180.000	-.3290	
	270.000	-.3350	
MACH (1) = 1.555 BETAT (3) = -4.220	X/LS	.985	1.000
	PHI		
	.000	-.3310	-.3310
	90.000	-.3130	
	180.000	-.3230	
	270.000	-.3290	
MACH (1) = 1.555 BETAT (4) = -.120	X/LS	.985	1.000
	PHI		
	.000	-.2820	-.2820
	90.000	-.2800	
	180.000	-.2950	
	270.000	-.2970	
MACH (1) = 1.555 BETAT (5) = 3.950	X/LS	.985	1.000
	PHI		
	.000	-.3120	-.3080
	90.000	-.3010	
	180.000	-.3210	
	270.000	-.3190	
MACH (1) = 1.555 BETAT (6) = 6.000	X/LS	.985	1.000
	PHI		
	.000	-.3240	-.3220
	90.000	-.3060	
	180.000	-.3340	
	270.000	-.3320	

AMES 97-757 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX14)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (7) = 8.040	X/LS	.985	1.000
		PHI		
		.000	-.3180	-.3130
		90.000	-.3010	
		180.000	-.3110	
		270.000	-.3180	
MACH (2) = 2.000	BETAT (1) = -8.290	X/LS	.985	1.000
		PHI		
		.000	-.2630	-.2610
		90.000	-.2540	
		180.000	-.2630	
		270.000	-.2650	
MACH (2) = 2.000	BETAT (2) = -6.250	X/LS	.985	1.000
		PHI		
		.000	-.2620	-.2630
		90.000	-.2550	
		180.000	-.2610	
		270.000	-.2640	
MACH (2) = 2.000	BETAT (3) = -4.200	X/LS	.985	1.000
		PHI		
		.000	-.2590	-.2610
		90.000	-.2510	
		180.000	-.2530	
		270.000	-.2580	
MACH (2) = 2.000	BETAT (4) = -.130	X/LS	.985	1.000
		PHI		
		.000	-.2580	-.2540
		90.000	-.2490	
		180.000	-.2560	
		270.000	-.2570	
MACH (2) = 2.000	BETAT (5) = 3.950	X/LS	.985	1.000
		PHI		
		.000	-.2330	-.2320
		90.000	-.2290	
		180.000	-.2350	
		270.000	-.2340	
MACH (2) = 2.000	BETAT (6) = 5.990	X/LS	.985	1.000
		PHI		
		.000	-.2190	-.2160
		90.000	-.2130	
		180.000	-.2210	
		270.000	-.2230	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1571

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX14)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

X/LS .985 1.000

PHI

.000 -.2300 -.2240

90.000 -.2180

180.000 -.2300

270.000 -.2310

AMES 97-707 1A9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX15) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	X/LS	.985	1.000
		PHI		
		.000	-.3550	-.3500
		90.000	-.3370	
		180.000	-.3490	
		270.000	-.3540	
MACH (1) = 1.555	BETAT (2) = -6.280	X/LS	.985	1.000
		PHI		
		.000	-.3500	-.3490
		90.000	-.3340	
		180.000	-.3430	
		270.000	-.3470	
MACH (1) = 1.555	BETAT (3) = -4.230	X/LS	.985	1.000
		PHI		
		.000	-.3430	-.3430
		90.000	-.3260	
		180.000	-.3370	
		270.000	-.3410	
MACH (1) = 1.555	BETAT (4) = -.120	X/LS	.985	1.000
		PHI		
		.000	-.2920	-.2850
		90.000	-.2880	
		180.000	-.3020	
		270.000	-.3030	
MACH (1) = 1.555	BETAT (5) = 3.970	X/LS	.985	1.000
		PHI		
		.000	-.3250	-.3260
		90.000	-.3120	
		180.000	-.3330	
		270.000	-.3290	
MACH (1) = 1.555	BETAT (6) = 6.030	X/LS	.985	1.000
		PHI		
		.000	-.3310	-.3270
		90.000	-.3140	
		180.000	-.3400	
		270.000	-.3370	

AMES 97-757 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX15)

SECTION (1)SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (7) = 8.080	X/LS .985 1.000
	PHI
	.000 -.3250 -.3260
	90.000 -.3060
	180.000 -.3250
	270.000 -.3250
MACH (2) = 2.000 BETAT (1) = -6.260	X/LS .985 1.000
	PHI
	.000 -.2630 -.2650
	90.000 -.2520
	180.000 -.2590
	270.000 -.2660
MACH (2) = 2.000 BETAT (2) = -4.210	X/LS .985 1.000
	PHI
	.000 -.2590 -.2610
	90.000 -.2490
	180.000 -.2530
	270.000 -.2590
MACH (2) = 2.000 BETAT (3) = -.130	X/LS .985 1.000
	PHI
	.000 -.2570 -.2540
	90.000 -.2500
	180.000 -.2540
	270.000 -.2570
MACH (2) = 2.000 BETAT (4) = 3.970	X/LS .985 1.000
	PHI
	.000 -.2400 -.2390
	90.000 -.2380
	180.000 -.2450
	270.000 -.2450
MACH (2) = 2.000 BETAT (5) = 6.020	X/LS .985 1.000
	PHI
	.000 -.2260 -.2190
	90.000 -.2160
	180.000 -.2280
	270.000 -.2280
MACH (2) = 2.000 BETAT (6) = 8.070	X/LS .985 1.000
	PHI
	.000 -.2330 -.2260
	90.000 -.2230
	180.000 -.2310
	270.000 -.2330

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX16) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350	X/LS	.985	1.000
	PHI		
	.000	-.3700	-.3640
	90.000	-.3540	
	180.000	-.3650	
MACH (1) = 1.555 BETAT (2) = -6.290	X/LS	.985	1.000
	PHI		
	.000	-.3660	-.3630
	90.000	-.3510	
	180.000	-.3610	
MACH (1) = 1.555 BETAT (3) = -4.240	X/LS	.985	1.000
	PHI		
	.000	-.3590	-.3570
	90.000	-.3410	
	180.000	-.3510	
MACH (1) = 1.555 BETAT (4) = -.110	X/LS	.985	1.000
	PHI		
	.000	-.3080	-.2980
	90.000	-.2970	
	180.000	-.3130	
MACH (1) = 1.555 BETAT (5) = 4.000	X/LS	.985	1.000
	PHI		
	.000	-.3370	-.3350
	90.000	-.3260	
	180.000	-.3400	
MACH (1) = 1.555 BETAT (6) = 6.060	X/LS	.985	1.000
	PHI		
	.000	-.3400	-.3360
	90.000	-.3240	
	180.000	-.3450	
	270.000	-.3440	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1575

AMES 97-757 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX16)

SECTION (1) SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (7) = 8.120	X/LS .985 1.000 PHI .000 -.3350 -.3350 90.000 -.3180 180.000 -.3360 270.000 -.3370
MACH (2) = 2.000 BETAT (1) = -8.340	X/LS .985 1.000 PHI .000 -.0930 -.1010 90.000 -.1600 180.000 -.0320 270.000 .1200
MACH (2) = 2.000 BETAT (2) = -6.270	X/LS .985 1.000 PHI .000 -.2640 -.2650 90.000 -.2540 180.000 -.2570 270.000 -.2650
MACH (2) = 2.000 BETAT (3) = -4.220	X/LS .985 1.000 PHI .000 -.2610 -.2610 90.000 -.2520 180.000 -.2500 270.000 -.2600
MACH (2) = 2.000 BETAT (4) = -1.120	X/LS .985 1.000 PHI .000 -.2570 -.2570 90.000 -.2530 180.000 -.2530 270.000 -.2580
MACH (2) = 2.000 BETAT (5) = 3.990	X/LS .985 1.000 PHI .000 -.2430 -.2380 90.000 -.2390 180.000 -.2470 270.000 -.2470
MACH (2) = 2.000 BETAT (6) = 6.050	X/LS .985 1.000 PHI .000 -.2300 -.2300 90.000 -.2190 180.000 -.2280 270.000 -.2310

AMES 97-707 1A9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX16)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.110

X/LS	.985	1.000
PHI		
.000	-.2340	-.2300
90.000	-.2250	
180.000	-.2340	
270.000	-.2350	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1577

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX17) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.410	X/LS	.985	1.000
	PHI		
	.000	-.3280	-.3310
	90.000	-.3230	
	180.000	-.3100	
	270.000	-.3280	
MACH (1) = 1.555 BETAT (2) = -6.360	X/LS	.985	1.000
	PHI		
	.000	-.3250	-.3320
	90.000	-.3110	
	180.000	-.3180	
	270.000	-.3270	
MACH (1) = 1.555 BETAT (3) = -4.300	X/LS	.985	1.000
	PHI		
	.000	-.3060	-.3280
	90.000	-.3060	
	180.000	-.3240	
	270.000	-.3250	
MACH (1) = 1.555 BETAT (4) = -.180	X/LS	.985	1.000
	PHI		
	.000	-.2700	-.2950
	90.000	-.2790	
	180.000	-.2910	
	270.000	-.2910	
MACH (1) = 1.555 BETAT (5) = 3.930	X/LS	.985	1.000
	PHI		
	.000	-.2900	-.3140
	90.000	-.2950	
	180.000	-.3100	
	270.000	-.3080	
MACH (1) = 1.555 BETAT (6) = 5.990	X/LS	.985	1.000
	PHI		
	.000	-.2980	-.3110
	90.000	-.3020	
	180.000	-.3090	
	270.000	-.3070	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX17)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.050

X/LS	.985	1.000
PHI		
.000	-.3070	-.3180
90.000	-.2970	
180.000	-.3140	
270.000	-.3130	

MACH (2) = 2.000 BETAT (1) = -8.380

X/LS	.985	1.000
PHI		
.000	-.2380	-.2390
90.000	-.2290	
180.000	-.2360	
270.000	-.2400	

MACH (2) = 2.000 BETAT (2) = -6.330

X/LS	.985	1.000
PHI		
.000	-.2440	-.2440
90.000	-.2350	
180.000	-.2420	
270.000	-.2450	

MACH (2) = 2.000 BETAT (3) = -4.280

X/LS	.985	1.000
PHI		
.000	.0000	.0000
90.000	.0000	
180.000	.0000	
270.000	.0000	

MACH (2) = 2.000 BETAT (4) = -1.170

X/LS	.985	1.000
PHI		
.000	-.2480	-.2560
90.000	-.2490	
180.000	-.2510	
270.000	-.2510	

MACH (2) = 2.000 BETAT (5) = 3.930

X/LS	.985	1.000
PHI		
.000	-.2430	-.2480
90.000	-.2430	
180.000	-.2440	
270.000	-.2450	

MACH (2) = 2.000 BETAT (6) = 5.980

X/LS	.985	1.000
PHI		
.000	-.2180	-.2290
90.000	-.2280	
180.000	-.2250	
270.000	-.2290	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1579

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX17)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.040

X/LS .985 1.000

PHI

.000 -.2080 -.2250

90.000 -.2180

180.000 -.2220

270.000 -.2220

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX18) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.340	X/LS	.985	1.000
		PHI		
		.000	-.3290	-.3280
		90.000	-.3250	
		180.000	-.3170	
		270.000	-.3250	
MACH (1) = 1.555	BETAT (2) = -6.300	X/LS	.985	1.000
		PHI		
		.000	-.3250	-.3290
		90.000	-.3180	
		180.000	-.3140	
		270.000	-.3270	
MACH (1) = 1.555	BETAT (3) = -4.250	X/LS	.985	1.000
		PHI		
		.000	-.3170	-.3290
		90.000	-.3020	
		180.000	-.3240	
		270.000	-.3260	
MACH (1) = 1.555	BETAT (4) = -.160	X/LS	.985	1.000
		PHI		
		.000	-.2750	-.2910
		90.000	-.2690	
		180.000	-.2850	
		270.000	-.2880	
MACH (1) = 1.555	BETAT (5) = 3.930	X/LS	.985	1.000
		PHI		
		.000	-.2880	-.3040
		90.000	-.2980	
		180.000	-.3050	
		270.000	-.3030	
MACH (1) = 1.555	BETAT (6) = 5.980	X/LS	.985	1.000
		PHI		
		.000	-.2720	-.2990
		90.000	-.2930	
		180.000	-.2970	
		270.000	-.2900	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1581

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX18)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.020

X/LS	.985	1.000
PHI		
.000	-.2870	-.2980
90.000	-.2940	
180.000	-.2990	
270.000	-.2930	

MACH (2) = 2.000 BETAT (1) = -8.320

X/LS	.985	1.000
PHI		
.000	-.2370	-.2460
90.000	-.2390	
180.000	-.2470	
270.000	-.2460	

MACH (2) = 2.000 BETAT (2) = -6.270

X/LS	.985	1.000
PHI		
.000	-.2490	-.2560
90.000	-.2510	
180.000	-.2580	
270.000	-.2570	

MACH (2) = 2.000 BETAT (3) = -4.230

X/LS	.985	1.000
PHI		
.000	-.2490	-.2580
90.000	-.2490	
180.000	-.2550	
270.000	-.2560	

MACH (2) = 2.000 BETAT (4) = -.160

X/LS	.985	1.000
PHI		
.000	-.2450	-.2550
90.000	-.2480	
180.000	-.2540	
270.000	-.2550	

MACH (2) = 2.000 BETAT (5) = 3.920

X/LS	.985	1.000
PHI		
.000	-.2260	-.2230
90.000	-.2310	
180.000	-.2330	
270.000	-.2320	

MACH (2) = 2.000 BETAT (6) = 5.960

X/LS	.985	1.000
PHI		
.000	-.2030	-.2000
90.000	-.2060	
180.000	-.2090	
270.000	-.2020	

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX18)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.010

X/LS	.985	1.000
PHI		
.000	-.2030	-.2050
90.000	-.2090	
180.000	-.2110	
270.000	-.2070	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1583

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX19) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	X/LS	.985	1.000
		FHI		
		.000	-.3270	-.3270
		90.000	-.3190	
		180.000	-.3200	
		270.000	-.3260	
MACH (1) = 1.555	BETAT (2) = -6.270	X/LS	.985	1.000
		FHI		
		.000	-.3220	-.3220
		90.000	-.3150	
		180.000	-.3160	
		270.000	-.3210	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LS	.985	1.000
		FHI		
		.000	-.3130	-.3140
		90.000	-.3060	
		180.000	-.3110	
		270.000	-.3130	
MACH (1) = 1.555	BETAT (4) = -.140	X/LS	.985	1.000
		FHI		
		.000	-.2760	-.2870
		90.000	-.2720	
		180.000	-.2880	
		270.000	-.2850	
MACH (1) = 1.555	BETAT (5) = 3.950	X/LS	.985	1.000
		FHI		
		.000	-.2960	-.2770
		90.000	-.2990	
		180.000	-.3030	
		270.000	-.2970	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LS	.985	1.000
		FHI		
		.000	-.2950	-.2870
		90.000	-.2970	
		180.000	-.3060	
		270.000	-.3010	

AMES 97-757 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX19)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (7) = 8.040	X/LS	.985	1.000
		PHI		
		.000	-.3030	-.2920
		90.000	-.2890	
		180.000	-.3010	
		270.000	-.3030	
MACH (2) = 2.000	BETAT (1) = -8.300	X/LS	.985	1.000
		PHI		
		.000	-.2540	-.2560
		90.000	-.2470	
		180.000	-.2560	
		270.000	-.2570	
MACH (2) = 2.000	BETAT (2) = -6.260	X/LS	.985	1.000
		PHI		
		.000	-.2610	-.2580
		90.000	-.2550	
		180.000	-.2610	
		270.000	-.2620	
MACH (2) = 2.000	BETAT (3) = -4.220	X/LS	.985	1.000
		PHI		
		.000	-.2580	-.2550
		90.000	-.2530	
		180.000	-.2550	
		270.000	-.2580	
MACH (2) = 2.000	BETAT (4) = -.140	X/LS	.985	1.000
		PHI		
		.000	-.2460	-.2530
		90.000	-.2440	
		180.000	-.2500	
		270.000	-.2510	
MACH (2) = 2.000	BETAT (5) = 3.930	X/LS	.985	1.000
		PHI		
		.000	-.2210	-.2160
		90.000	-.2230	
		180.000	-.2240	
		270.000	-.2220	
MACH (2) = 2.000	BETAT (6) = 5.980	X/LS	.985	1.000
		PHI		
		.000	-.2060	-.1980
		90.000	-.2120	
		180.000	-.2130	
		270.000	-.2040	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1585

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX19)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.020

X/LS	.985	1.000
PHI		
.000	-.2150	-.2130
90.000	-.2150	
180.000	-.2200	
270.000	-.2210	

AMES 97-757 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX25) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

X/LS .985 1.000
 PHI
 .000 -.3440 -.3390
 90.000 -.3260
 180.000 -.3340
 270.000 -.3410

MACH (1) = 1.555 BETAT (2) = -6.270

X/LS .985 1.000
 PHI
 .000 -.3370 -.3370
 90.000 -.3210
 180.000 -.3280
 270.000 -.3350

MACH (1) = 1.555 BETAT (3) = -4.220

X/LS .985 1.000
 PHI
 .000 -.3330 -.3340
 90.000 -.3140
 180.000 -.3260
 270.000 -.3310

MACH (1) = 1.555 BETAT (4) = -.130

X/LS .985 1.000
 PHI
 .000 -.2800 -.2820
 90.000 -.2780
 180.000 -.2940
 270.000 -.2950

MACH (1) = 1.555 BETAT (5) = 3.960

X/LS .985 1.000
 PHI
 .000 -.3080 -.3040
 90.000 -.2980
 180.000 -.3180
 270.000 -.3160

MACH (1) = 1.555 BETAT (6) = 6.010

X/LS .985 1.000
 PHI
 .000 -.3220 -.3220
 90.000 -.3040
 180.000 -.3340
 270.000 -.3310

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1587

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX21)

SECTION (1) SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (7) = 8.080	X/LS .985 1.000
	PHI
	.000 -.3160 -.3120
	90.000 -.2980
	180.000 -.3100
	270.000 -.3160
MACH (2) = 2.000 BETAT (1) = -8.280	X/LS .985 1.000
	PHI
	.000 -.2610 -.2610
	90.000 -.2540
	180.000 -.2610
	270.000 -.2630
MACH (2) = 2.000 BETAT (2) = -6.240	X/LS .985 1.000
	PHI
	.000 -.2620 -.2630
	90.000 -.2540
	180.000 -.2590
	270.000 -.2630
MACH (2) = 2.000 BETAT (3) = -4.200	X/LS .985 1.000
	PHI
	.000 -.2590 -.2600
	90.000 -.2500
	180.000 -.2530
	270.000 -.2580
MACH (2) = 2.000 BETAT (4) = -1.150	X/LS .985 1.000
	PHI
	.000 -.2600 -.2550
	90.000 -.2510
	180.000 -.2580
	270.000 -.2600
MACH (2) = 2.000 BETAT (5) = 3.950	X/LS .985 1.000
	PHI
	.000 -.2320 -.2310
	90.000 -.2270
	180.000 -.2330
	270.000 -.2330
MACH (2) = 2.000 BETAT (6) = 5.990	X/LS .985 1.000
	PHI
	.000 -.2210 -.2170
	90.000 -.2140
	180.000 -.2220
	270.000 -.2230

AMES 97-747 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX21)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CF

MACH (2) = 2.000 BETAT (7) = 8.040

X/LS	.985	1.000
FHI		
.000	-.2290	-.2230
90.000	-.2180	
180.000	-.2290	
270.000	-.2310	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1589

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX21) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	X/LS	.985	1.000
		PHI		
		.000	-.3560	-.3500
		90.000	-.3380	
		180.000	-.3490	
		270.000	-.3540	
MACH (1) = 1.555	BETAT (2) = -6.290	X/LS	.985	1.000
		PHI		
		.000	-.3500	-.3500
		90.000	-.3360	
		180.000	-.3430	
		270.000	-.3470	
MACH (1) = 1.555	BETAT (3) = -4.230	X/LS	.985	1.000
		PHI		
		.000	-.3410	-.3400
		90.000	-.3260	
		180.000	-.3350	
		270.000	-.3390	
MACH (1) = 1.555	BETAT (4) = -.120	X/LS	.985	1.000
		PHI		
		.000	-.2890	-.2850
		90.000	-.2870	
		180.000	-.3010	
		270.000	-.3010	
MACH (1) = 1.555	BETAT (5) = 3.980	X/LS	.985	1.000
		PHI		
		.000	-.3290	-.3260
		90.000	-.3120	
		180.000	-.3340	
		270.000	-.3320	
MACH (1) = 1.555	BETAT (6) = 6.040	X/LS	.985	1.000
		PHI		
		.000	-.3310	-.3290
		90.000	-.3130	
		180.000	-.3390	
		270.000	-.3380	

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX21)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (7) = 8.110	X/LS	.985	1.000
		PHI		
		.000	-.3230	-.3210
		90.000	-.3050	
		180.000	-.3220	
		270.000	-.3240	
MACH (2) = 2.000	BETAT (1) = -8.310	X/LS	.985	1.000
		PHI		
		.000	-.2600	-.2620
		90.000	-.2500	
		180.000	-.2550	
		270.000	-.2620	
MACH (2) = 2.000	BETAT (2) = -6.260	X/LS	.985	1.000
		PHI		
		.000	-.2630	-.2650
		90.000	-.2530	
		180.000	-.2580	
		270.000	-.2640	
MACH (2) = 2.000	BETAT (3) = -4.210	X/LS	.985	1.000
		PHI		
		.000	-.2600	-.2610
		90.000	-.2490	
		180.000	-.2530	
		270.000	-.2590	
MACH (2) = 2.000	BETAT (4) = -.120	X/LS	.985	1.000
		PHI		
		.000	-.2550	-.2520
		90.000	-.2480	
		180.000	-.2520	
		270.000	-.2550	
MACH (2) = 2.000	BETAT (5) = 3.970	X/LS	.985	1.000
		PHI		
		.000	-.2400	-.2360
		90.000	-.2380	
		180.000	-.2460	
		270.000	-.2450	
MACH (2) = 2.000	BETAT (6) = 6.020	X/LS	.985	1.000
		PHI		
		.000	-.2270	-.2210
		90.000	-.2170	
		180.000	-.2290	
		270.000	-.2280	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1591

AMES 97-757 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX21)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.570

X/LS	.985	1.000
PHI		
.000	-.2300	-.2230
90.000	-.2230	
180.000	-.2320	
270.000	-.2330	

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX22) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.360	X/LS	.985	1.000
		PHI		
		.000	-.3720	-.3630
		90.000	-.3540	
		180.000	-.3670	
		270.000	-.3690	
MACH (1) = 1.555	BETAT (2) = -6.310	X/LS	.985	1.000
		PHI		
		.000	-.3680	-.3640
		90.000	-.3520	
		180.000	-.3630	
		270.000	-.3640	
MACH (1) = 1.555	BETAT (3) = -4.230	X/LS	.985	1.000
		PHI		
		.000	-.3610	-.3590
		90.000	-.3430	
		180.000	-.3520	
		270.000	-.3570	
MACH (1) = 1.555	BETAT (4) = -.110	X/LS	.985	1.000
		PHI		
		.000	-.3100	-.3020
		90.000	-.2970	
		180.000	-.3130	
		270.000	-.3130	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LS	.985	1.000
		PHI		
		.000	-.3360	-.3330
		90.000	-.3250	
		180.000	-.3400	
		270.000	-.3370	
MACH (1) = 1.555	BETAT (6) = 6.060	X/LS	.985	1.000
		PHI		
		.000	-.3390	-.3340
		90.000	-.3230	
		180.000	-.3440	
		270.000	-.3420	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1593

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX22)

SECTION (1) SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (7) = 8.120	X/LS .985 1.000
	PHI
	.000 -.3330 -.3340
	90.000 -.3170
	180.000 -.3360
	270.000 -.3350
MACH (2) = 2.000 BETAT (1) = -8.330	X/LS .985 1.000
	PHI
	.000 -.2600 -.2600
	90.000 -.2500
	180.000 -.2510
	270.000 -.2610
MACH (2) = 2.000 BETAT (2) = -6.280	X/LS .985 1.000
	PHI
	.000 -.2640 -.2640
	90.000 -.2540
	180.000 -.2550
	270.000 -.2650
MACH (2) = 2.000 BETAT (3) = -4.220	X/LS .985 1.000
	PHI
	.000 -.2610 -.2620
	90.000 -.2520
	180.000 -.2510
	270.000 -.2600
MACH (2) = 2.000 BETAT (4) = -.110	X/LS .985 1.000
	PHI
	.000 -.2560 -.2560
	90.000 -.2520
	180.000 -.2510
	270.000 -.2570
MACH (2) = 2.000 BETAT (5) = 4.000	X/LS .985 1.000
	PHI
	.000 -.2440 -.2370
	90.000 -.2400
	180.000 -.2480
	270.000 -.2470
MACH (2) = 2.000 BETAT (6) = 6.050	X/LS .985 1.000
	PHI
	.000 -.2290 -.2280
	90.000 -.2180
	180.000 -.2270
	270.000 -.2310

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX22)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.110

X/LS	.985	1.000
PHI		
.000	-.2330	-.2280
90.000	-.2240	
180.000	-.2330	
270.000	-.2340	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1595

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX23) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.400	X/LS	.985	1.000
	PHI		
	.000	-.3300	-.3320
	90.000	-.3240	
	180.000	-.3110	
	270.000	-.3290	
MACH (1) = 1.555 BETAT (2) = -6.360	X/LS	.985	1.000
	PHI		
	.000	-.3270	-.3340
	90.000	-.3140	
	180.000	-.3200	
	270.000	-.3300	
MACH (1) = 1.555 BETAT (3) = -4.290	X/LS	.985	1.000
	PHI		
	.000	-.3110	-.3340
	90.000	-.3130	
	180.000	-.3300	
	270.000	-.3300	
MACH (1) = 1.555 BETAT (4) = -.170	X/LS	.985	1.000
	PHI		
	.000	-.2740	-.2970
	90.000	-.2840	
	180.000	-.2940	
	270.000	-.2930	
MACH (1) = 1.555 BETAT (5) = 3.940	X/LS	.985	1.000
	PHI		
	.000	-.2930	-.3140
	90.000	-.2950	
	180.000	-.3120	
	270.000	-.3100	
MACH (1) = 1.555 BETAT (6) = 8.060	X/LS	.985	1.000
	PHI		
	.000	-.3110	-.3210
	90.000	-.3010	
	180.000	-.3180	
	270.000	-.3170	

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX23)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.380

X/LS	.985	1.000
PHI		
.000	-.2390	-.2390
90.000	-.2290	
180.000	-.2370	
270.000	-.2410	

MACH (2) = 2.000 BETAT (2) = -6.330

X/LS	.985	1.000
PHI		
.000	-.2450	-.2460
90.000	-.2360	
180.000	-.2440	
270.000	-.2470	

MACH (2) = 2.000 BETAT (3) = -4.280

X/LS	.985	1.000
PHI		
.000	-.2520	-.2530
90.000	-.2470	
180.000	-.2520	
270.000	-.2540	

MACH (2) = 2.000 BETAT (4) = -1.170

X/LS	.985	1.000
PHI		
.000	-.2480	-.2570
90.000	-.2490	
180.000	-.2520	
270.000	-.2510	

MACH (2) = 2.000 BETAT (5) = 3.930

X/LS	.985	1.000
PHI		
.000	-.2410	-.2470
90.000	-.2420	
180.000	-.2430	
270.000	-.2440	

MACH (2) = 2.000 BETAT (6) = 5.980

X/LS	.985	1.000
PHI		
.000	-.2160	-.2230
90.000	-.2240	
180.000	-.2260	
270.000	-.2260	

MACH (2) = 2.000 BETAT (7) = 8.040

X/LS	.985	1.000
PHI		
.000	-.2090	-.2280
90.000	-.2210	
180.000	-.2260	
270.000	-.2250	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1597

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER BASE

(RBOX24) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330 X/LS .985 1.000
 PHI
 .000 -.3230 -.3220
 90.000 -.3190
 180.000 -.3100
 270.000 -.3200

MACH (1) = 1.555 BETAT (2) = -6.290 X/LS .985 1.000
 PHI
 .000 -.3210 -.3240
 90.000 -.3130
 180.000 -.3080
 270.000 -.3220

MACH (1) = 1.555 BETAT (3) = -4.240 X/LS .985 1.000
 PHI
 .000 -.3110 -.3230
 90.000 -.2950
 180.000 -.3170
 270.000 -.3200

MACH (1) = 1.555 BETAT (4) = -.150 X/LS .985 1.000
 PHI
 .000 -.2730 -.2900
 90.000 -.2660
 180.000 -.2840
 270.000 -.2860

MACH (1) = 1.555 BETAT (5) = 3.940 X/LS .985 1.000
 PHI
 .000 -.2840 -.3010
 90.000 -.2920
 180.000 -.2990
 270.000 -.2970

MACH (1) = 1.555 BETAT (6) = 5.980 X/LS .985 1.000
 PHI
 .000 -.2700 -.2940
 90.000 -.2880
 180.000 -.2930
 270.000 -.2860

AMES 97-757 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX24)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (7) = 8.030	X/LS	.985	1.000
	PHI		
	.000	-.2820	-.2950
	90.000	-.2900	
	180.000	-.2950	
	270.000	-.2900	
MACH (2) = 2.000 BETAT (1) = -8.310	X/LS	.985	1.000
	PHI		
	.000	-.2370	-.2460
	90.000	-.2400	
	180.000	-.2470	
	270.000	-.2450	
MACH (2) = 2.000 BETAT (2) = -6.270	X/LS	.985	1.000
	PHI		
	.000	-.2470	-.2540
	90.000	-.2490	
	180.000	-.2560	
	270.000	-.2550	
MACH (2) = 2.000 BETAT (3) = -4.230	X/LS	.985	1.000
	PHI		
	.000	-.2520	-.2610
	90.000	-.2520	
	180.000	-.2570	
	270.000	-.2590	
MACH (2) = 2.000 BETAT (4) = -.160	X/LS	.985	1.000
	PHI		
	.000	-.2430	-.2540
	90.000	-.2470	
	180.000	-.2520	
	270.000	-.2530	
MACH (2) = 2.000 BETAT (5) = 3.920	X/LS	.985	1.000
	PHI		
	.000	-.2260	-.2240
	90.000	-.2320	
	180.000	-.2330	
	270.000	-.2330	
MACH (2) = 2.000 BETAT (6) = 5.960	X/LS	.985	1.000
	PHI		
	.000	-.2010	-.2030
	90.000	-.2070	
	180.000	-.2100	
	270.000	-.2040	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1599

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX24)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.010

X/LS .985 1.000

FHI

.000 -.2050 -.2070

.90.000 -.2110

180.000 -.2130

270.000 -.2080

AMES 97-797 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX25) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDDLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	X/LS	.985	1.000
		PHI		
		.000	-.3210	-.3210
		90.000	-.3140	
		180.000	-.3140	
		270.000	-.3200	
MACH (1) = 1.555	BETAT (2) = -6.270	X/LS	.985	1.000
		PHI		
		.000	-.3190	-.3190
		90.000	-.3120	
		180.000	-.3130	
		270.000	-.3180	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LS	.985	1.000
		PHI		
		.000	-.3090	-.3110
		90.000	-.3030	
		180.000	-.3070	
		270.000	-.3100	
MACH (1) = 1.555	BETAT (4) = -.130	X/LS	.985	1.000
		PHI		
		.000	-.2720	-.2860
		90.000	-.2680	
		180.000	-.2830	
		270.000	-.2830	
MACH (1) = 1.555	BETAT (5) = 3.950	X/LS	.985	1.000
		PHI		
		.000	-.2920	-.2760
		90.000	-.2970	
		180.000	-.3010	
		270.000	-.2910	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LS	.985	1.000
		PHI		
		.000	-.2910	-.2780
		90.000	-.2930	
		180.000	-.3010	
		270.000	-.2970	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1601

AMES 97-757 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX25)

SECTION (1)SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (7) = 8.040	X/LS .985 1.000
	PHI
	.000 -.2990 -.2900
	90.000 -.2850
	180.000 -.2980
	270.000 -.2990
MACH (2) = 2.000 BETAT (1) = -8.290	X/LS .985 1.000
	PHI
	.000 -.2540 -.2550
	90.000 -.2460
	180.000 -.2550
	270.000 -.2560
MACH (2) = 2.000 BETAT (2) = -6.250	X/LS .985 1.000
	PHI
	.000 -.2590 -.2560
	90.000 -.2530
	180.000 -.2590
	270.000 -.2600
MACH (2) = 2.000 BETAT (3) = -4.210	X/LS .985 1.000
	PHI
	.000 -.2580 -.2550
	90.000 -.2520
	180.000 -.2560
	270.000 -.2580
MACH (2) = 2.000 BETAT (4) = -.140	X/LS .985 1.000
	PHI
	.000 -.2470 -.2530
	90.000 -.2450
	180.000 -.2500
	270.000 -.2520
MACH (2) = 2.000 BETAT (5) = 3.950	X/LS .985 1.000
	PHI
	.000 -.2250 -.2200
	90.000 -.2270
	180.000 -.2270
	270.000 -.2270
MACH (2) = 2.000 BETAT (6) = 8.020	X/LS .985 1.000
	PHI
	.000 -.2140 -.2130
	90.000 -.2160
	180.000 -.2210
	270.000 -.2220

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX26) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	X/LS	.985	1.000
		PHI		
		.000	-.3400	-.3360
		90.000	-.3230	
		180.000	-.3310	
		270.000	-.3380	
MACH (1) = 1.555	BETAT (2) = -6.260	X/LS	.985	1.000
		PHI		
		.000	-.3340	-.3340
		90.000	-.3170	
		180.000	-.3240	
		270.000	-.3310	
MACH (1) = 1.555	BETAT (3) = -4.220	X/LS	.985	1.000
		PHI		
		.000	-.3270	-.3280
		90.000	-.3100	
		180.000	-.3200	
		270.000	-.3250	
MACH (1) = 1.555	BETAT (4) = -.120	X/LS	.985	1.000
		PHI		
		.000	-.2740	-.2800
		90.000	-.2750	
		180.000	-.2890	
		270.000	-.2900	
MACH (1) = 1.555	BETAT (5) = 3.960	X/LS	.985	1.000
		PHI		
		.000	-.3060	-.3040
		90.000	-.2970	
		180.000	-.3160	
		270.000	-.3140	
MACH (1) = 1.555	BETAT (6) = 6.010	X/LS	.985	1.000
		PHI		
		.000	-.3190	-.3180
		90.000	-.3030	
		180.000	-.3310	
		270.000	-.3280	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1603

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX26)

SECTION (1) SRM BOOSTER BASE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (7) = 8.050	X/LS .985 1.000
	PHI
	.000 -.3140 -.3090
	90.000 -.2950
	180.000 -.3060
	270.000 -.3110
MACH (2) = 2.000 BETAT (1) = -8.280	X/LS .985 1.000
	PHI
	.000 -.2610 -.2610
	90.000 -.2530
	180.000 -.2610
	270.000 -.2630
MACH (2) = 2.000 BETAT (2) = -6.230	X/LS .985 1.000
	PHI
	.000 -.2610 -.2630
	90.000 -.2530
	180.000 -.2590
	270.000 -.2630
MACH (2) = 2.000 BETAT (3) = -4.200	X/LS .985 1.000
	PHI
	.000 -.2590 -.2610
	90.000 -.2500
	180.000 -.2530
	270.000 -.2590
MACH (2) = 2.000 BETAT (4) = -.120	X/LS .985 1.000
	PHI
	.000 -.2630 -.2570
	90.000 -.2540
	180.000 -.2600
	270.000 -.2620
MACH (2) = 2.000 BETAT (5) = 3.950	X/LS .985 1.000
	PHI
	.000 -.2360 -.2360
	90.000 -.2320
	180.000 -.2380
	270.000 -.2380
MACH (2) = 2.000 BETAT (6) = 5.990	X/LS .985 1.000
	PHI
	.000 -.2220 -.2190
	90.000 -.2160
	180.000 -.2250
	270.000 -.2260

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX26)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CF

MACH (2) = 2.000 BETAT (7) = 8.030

X/LS	.985	1.000
PHI		
.000	-.2330	-.2280
90.000	-.2210	
180.000	-.2320	
270.000	-.2340	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1605

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER BASE

(RBOX27) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDDLR = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330	X/LS	.985	1.000
	PHI		
	.000	-.3540	-.3480
	90.000	-.3350	
	180.000	-.3460	
	270.000	-.3520	
MACH (1) = 1.555 BETAT (2) = -6.270	X/LS	.985	1.000
	PHI		
	.000	-.3460	-.3460
	90.000	-.3320	
	180.000	-.3390	
	270.000	-.3430	
MACH (1) = 1.555 BETAT (3) = -4.230	X/LS	.985	1.000
	PHI		
	.000	-.3390	-.3400
	90.000	-.3240	
	180.000	-.3310	
	270.000	-.3370	
MACH (1) = 1.555 BETAT (4) = -.110	X/LS	.985	1.000
	PHI		
	.000	-.2890	-.2840
	90.000	-.2850	
	180.000	-.2980	
	270.000	-.3010	
MACH (1) = 1.555 BETAT (5) = 3.990	X/LS	.985	1.000
	PHI		
	.000	-.3250	-.3230
	90.000	-.3100	
	180.000	-.3310	
	270.000	-.3280	
MACH (1) = 1.555 BETAT (6) = 6.030	X/LS	.985	1.000
	PHI		
	.000	-.3290	-.3260
	90.000	-.3120	
	180.000	-.3380	
	270.000	-.3340	

AMES 97-707 1A9 ORA + S3 + T9 SRM BOOSTER BASE

(RBOX27)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (7) = 8.090	X/LS	.985	1.000
		PHI		
		.000	-.3210	-.3190
		90.000	-.3030	
		180.000	-.3200	
		270.000	-.3230	
MACH (2) = 2.000	BETAT (1) = -8.300	X/LS	.985	1.000
		PHI		
		.000	-.2620	-.2630
		90.000	-.2510	
		180.000	-.2560	
		270.000	-.2630	
MACH (2) = 2.000	BETAT (2) = -6.250	X/LS	.985	1.000
		PHI		
		.000	-.2630	-.2650
		90.000	-.2530	
		180.000	-.2570	
		270.000	-.2660	
MACH (2) = 2.000	BETAT (3) = -4.200	X/LS	.985	1.000
		PHI		
		.000	-.2620	-.2630
		90.000	-.2510	
		180.000	-.2540	
		270.000	-.2620	
MACH (2) = 2.000	BETAT (4) = -.120	X/LS	.985	1.000
		PHI		
		.000	-.2590	-.2560
		90.000	-.2510	
		180.000	-.2550	
		270.000	-.2580	
MACH (2) = 2.000	BETAT (5) = 3.970	X/LS	.985	1.000
		PHI		
		.000	-.2440	-.2400
		90.000	-.2400	
		180.000	-.2490	
		270.000	-.2480	
MACH (2) = 2.000	BETAT (6) = 6.030	X/LS	.985	1.000
		PHI		
		.000	-.2290	-.2230
		90.000	-.2190	
		180.000	-.2310	
		270.000	-.2300	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1607

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX27)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.070

X/LS	.985	1.000
PHI		
.000	-.2360	-.2280
90.000	-.2250	
180.000	-.2350	
270.000	-.2360	

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER BASE

(RBOX28) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 8.000 ORBINC = .000
 RUDER = 15.000 ELEVON = .000
 RUDDLE = .000

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.350	X/LS	.985	1.000
		PHI		
		.000	-.3680	-.3600
		90.000	-.3510	
		180.000	-.3640	
		270.000	-.3660	
MACH (1) = 1.555	BETAT (2) = -6.300	X/LS	.985	1.000
		PHI		
		.000	-.3640	-.3630
		90.000	-.3500	
		180.000	-.3610	
		270.000	-.3610	
MACH (1) = 1.555	BETAT (3) = -4.230	X/LS	.985	1.000
		PHI		
		.000	-.3560	-.3550
		90.000	-.3390	
		180.000	-.3480	
		270.000	-.3530	
MACH (1) = 1.555	BETAT (4) = -.110	X/LS	.985	1.000
		PHI		
		.000	-.3060	-.2970
		90.000	-.2960	
		180.000	-.3120	
		270.000	-.3100	
MACH (1) = 1.555	BETAT (5) = 4.000	X/LS	.985	1.000
		PHI		
		.000	-.3360	-.3330
		90.000	-.3250	
		180.000	-.3400	
		270.000	-.3370	
MACH (1) = 1.555	BETAT (6) = 6.060	X/LS	.985	1.000
		PHI		
		.000	-.3400	-.3360
		90.000	-.3250	
		180.000	-.3440	
		270.000	-.3430	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1609

AMES 97-707 IA9 CEA + S3 + T9 SRM BOOSTER BASE

(RBOX28)

SECTION (1) SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (7) = 8.130	X/LS	.985	1.000
		PHI		
		.000	-.3310	-.3310
		90.000	-.3130	
		180.000	-.3330	
		270.000	-.3330	
MACH (2) = 2.000	BETAT (1) = -8.320	X/LS	.985	1.000
		PHI		
		.000	-.2620	-.2610
		90.000	-.2520	
		180.000	-.2530	
		270.000	-.2630	
MACH (2) = 2.000	BETAT (2) = -6.260	X/LS	.985	1.000
		PHI		
		.000	-.2630	-.2630
		90.000	-.2530	
		180.000	-.2520	
		270.000	-.2640	
MACH (2) = 2.000	BETAT (3) = -4.210	X/LS	.985	1.000
		PHI		
		.000	-.2610	-.2610
		90.000	-.2510	
		180.000	-.2490	
		270.000	-.2590	
MACH (2) = 2.000	BETAT (4) = -.110	X/LS	.985	1.000
		PHI		
		.000	-.2570	-.2550
		90.000	-.2520	
		180.000	-.2530	
		270.000	-.2580	
MACH (2) = 2.000	BETAT (5) = 3.990	X/LS	.985	1.000
		PHI		
		.000	-.2480	-.2420
		90.000	-.2440	
		180.000	-.2520	
		270.000	-.2510	
MACH (2) = 2.000	BETAT (6) = 6.050	X/LS	.985	1.000
		PHI		
		.000	-.2310	-.2290
		90.000	-.2200	
		180.000	-.2290	
		270.000	-.2320	

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER BASE

(RBOX28)

SECTION (1)SRM BOOSTER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (7) = 8.110

X/LS	.985	1.000
PHI		
.000	-.2370	-.2330
90.000	-.2270	
180.000	-.2350	
270.000	-.2370	

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1611

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS01) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

ALPHAT(1) = -8.400

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4020	-.0120	.1280	-.2810	-.2570	-.2700	-.2120	-.0960	-.0240	-.0560	-.0370	-.1650	-.1950	.1360	-.0400
45.000		.0480	.0590	-.2990	-.2440	-.1470							.0550	.0300	.0770
90.000		.1380	.1880	-.2680	-.2290	-.1790	-.2220	-.2400	-.3510	-.1980	-.1960	-.1640	-.0360	.0700	.3030
135.000		.2960	.3990	-.1860	-.1240	-.0380							-.1080	.1430	.4530
180.000	1.4020	.3790	.5990	-.1160	.0080	.1280	.0960	.0540	-.1190	-.0700	.0100	-.2590	-.1850	.1630	.4720
225.000		.2740	.7530	-.0590	-.0200	.1770	.1090						-.0560	.0730	.1430
270.000		.0600	.6900	-.0140	-.3470	-.1890	-.2020	-.1730			.0330	-.2310	-.0590	-.1120	.0520
315.000		-.0500	.0740	-.3910	-.5070	-.4700	-.2170						-.0350	.1110	.0960

X/LS .9670

PHI

.000 -.0160
 45.000 .1690
 90.000 .3430
 135.000 .4240
 180.000 .3200
 225.000 -.0890
 270.000 .1090
 315.000 .3110

MACH (1) = 1.555

ALPHAT(2) = -6.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4330	.0170	.1810	-.2710	-.2360	-.2450	-.1710	-.0220	-.0500	-.0630	-.0160	-.1230	-.0810	.0500	.0610
45.000		.0800	.1000	-.2840	-.2180	-.1140							.0240	.0710	.1650
90.000		.1640	.1990	-.2570	-.2110	-.1320	-.1470	-.1640	-.2800	-.1560	-.1240	-.1480	.0640	.1690	.4200
135.000		.2700	.3770	-.1900	-.1330	-.0480							-.0800	.1170	.4980
180.000	1.4330	.3100	.5420	-.1290	-.0570	.0950	.0710	.0620	-.1120	-.0810	.0300	-.2280	-.1150	.0980	.4820
225.000		.2320	.7070	-.0800	-.0950	.1200	.0990						-.0360	.0740	.1620
270.000		.0780	.7450	.0090	-.3530	-.2410	-.2390	-.1070			.0640	-.2070	-.0560	-.0810	.0510
315.000		-.0030	.1900	-.3320	-.4430	-.4210	-.2220						.0210	.1590	.0710

X/LS .9670

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO601)

MACH (1) = 1.555

ALPHAT(2) = -6.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.1310
45.000	.2320
90.000	.3970
135.000	.4600
180.000	.3230
225.000	-.0780
270.000	.1330
315.000	.2230

MACH (1) = 1.555

ALPHAT(3) = -4.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4510	.0620	.2350	-.2360	-.2140	-.2250	-.1140	.0190	-.0250	-.0700	-.0370	-.1230	.0630	.1270	.1520
45.000		.1230	.1410	-.2650	-.2040	-.0870							.0770	.1910	.2780
90.000		.1820	.2000	-.2540	-.1960	-.1130	-.0850	-.0970	-.1020	-.1080	-.0440	-.0890	.1270	.2420	.4440
135.000		.2450	.3390	-.2010	-.1440	-.0440							-.0190	.1510	.5440
180.000	1.4510	.2550	.4740	-.1540	-.0910	.0500	.0700	.0820	-.1090	-.0700	.0900	-.1540	-.0640	.0720	.5600
225.000		.1880	.6320	-.1120	-.1440	.0600	.0400						-.0170	.1010	.2470
270.000		.0960	.7790	.0290	-.3550	-.2890	-.2900	-.0870			.0630	-.1760	-.0290	-.0590	.0850
315.000		.0370	.2970	-.2760	-.3770	-.3780	-.1590						.0890	.1470	.1360

X/LS .9670

PHI

.000	.1570
45.000	.3010
90.000	.4290
135.000	.5020
180.000	.3560
225.000	-.0410
270.000	.1610
315.000	.2470

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1613

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R00S01)

MACH (1) = 1.555

ALPHAT(4) = -2.190

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4570	.1040	.2950	-.2180	-.1870	-.2100	-.0760	.0310	.0000	-.0210	-.0010	-.1030	.0910	.1740	.2100
45.000		.1560	.1760	-.2430	-.1860	-.0700							.1690	.2800	.3400
90.000		.1930	.1990	-.2530	-.1870	-.0950	-.0410	-.0570	-.0270	-.0670	.0230	-.0300	.1860	.3150	.3320
135.000		.2130	.2680	-.2060	-.1530	-.0860							.0430	.1860	.5250
180.000	1.4570	.1970	.4150	-.1750	-.1240	-.0100	-.0610	.1040	-.0960	-.0340	.1470	-.1070	-.0220	.0910	.5630
225.000		.1460	.5630	-.1470	-.2010	-.0240	-.0170						.0080	.1200	.3000
270.000		.1020	.8030	.0410	-.3560	-.3760	-.2860	-.1060			.0440	-.1520	.0200	-.0320	.1230
315.000		.0710	.3840	-.2310	-.3200	-.3480	-.0640						.0510	.0780	.1420

X/LS .9670

PHI

.000	.2350
45.000	.3110
90.000	.4350
135.000	.5220
180.000	.3780
225.000	.10070
270.000	.1650
315.000	.2020

MACH (1) = 1.555

ALPHAT(5) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4610	.1480	.3470	-.2030	-.1610	-.1900	-.0590	.0330	.0060	-.0060	.0060	-.0900	.1360	.2360	.2590
45.000		.1840	.2210	-.2200	-.1730	-.0600							.2180	.3210	.3680
90.000		.1940	.2000	-.2500	-.1860	-.0870	-.0190	-.0170	.0200	-.0500	.0720	.0380	.2540	.3590	.3400
135.000		.1880	.2290	-.2150	-.1660	-.1060							.1160	.2290	.3940
180.000	1.4610	.1500	.3600	-.1980	-.1560	-.0440	-.0400	.1200	-.0790	-.0160	.1680	-.0880	-.0020	.1090	.5680
225.000		.1090	.4810	-.1860	-.2550	-.0890	-.0340						.0420	.1690	.3020
270.000		.1050	.8080	.0460	-.3550	-.2460	-.1220	-.0680			.0390	-.1390	.0430	-.0260	.1410
315.000		.1040	.4710	-.1880	-.2620	-.3050	-.0150						.0540	.0600	.1760

X/LS .9670

PHI

.000	.3090
45.000	.3380
90.000	.3510
135.000	.5130
180.000	.3890

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO001)

MACH (1) = 1.555

ALPHAT(5) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0210

270.000 .1860

315.000 .2670

MACH (1) = 1.555

ALPHAT(6) = 1.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.4580	.1970	.4000	-.1610	-.1340	-.1670	-.0730	.0290	.0070	.0060	.0260	-.0350	.1940	.2900	.3170
45.000		.2100	.2630	-.2070	-.1590	-.0630							.2550	.3320	.3770
90.000		.1910	.2040	-.2520	-.1830	-.0990	-.0390	-.0010	.0420	-.0290	.0940	.0760	.3110	.3900	.3550
135.000		.1590	.1910	-.2440	-.1830	-.1100							.1680	.2570	.1360
180.000	1.4580	.1040	.3030	-.2210	-.1800	-.1900	-.0230	.1220	-.0480	-.0090	.1840	-.0780	.0290	.1100	.5240
225.000		.0700	.3940	-.2270	-.3110	-.2570	-.0260						.0680	.1630	.3140
270.000		.0990	.8010	.0420	-.3550	-.2640	.0330	.0340			.0280	-.1410	.0510	.0110	.1390
315.000		.1410	.5460	-.1510	-.2100	-.2610	.0230						.1040	.1200	.1910

X/LS .9670

PHI

.000 .3360

45.000 .3620

90.000 .2770

135.000 .4640

180.000 .4150

225.000 .0990

270.000 .2080

315.000 .2800

MACH (1) = 1.555

ALPHAT(7) = 4.010

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4540	.2490	.4610	-.1610	-.1060	-.1360	-.0800	.0190	.0080	.0210	.0440	-.0090	.2660	.3740	.3830
45.000		.2380	.3210	-.2000	-.1500	-.0650							.2900	.3780	.4110
90.000		.1800	.2040	-.2490	-.1900	-.1140	-.0950	-.0010	.0450	-.0150	.1140	.0730	.3580	.3550	.3440
135.000		.1230	.1510	-.2620	-.1990	-.1260							.2250	.3150	.1310
180.000	1.4540	.0620	.2410	-.2320	-.2100	-.1880	-.0210	.0430	-.0550	-.0090	.2040	-.0640	.0640	.1320	.5240
225.000		.0360	.3030	-.2740	-.3540	-.2870	.0240						.0920	.1820	.3200

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1615

AMES 97-707 1A9 OCA + S3 + T9 SRM BOOSTER

(RBO501)

MACH (1) = 1.555

ALPHAT (7) = 4.010

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0950	.7830	.0330	-.3520	-.2900	.0390	.0510			.0670	-.1120	.0520	.0550	.1550
315.000		.1820	.6190	-.1180	-.1610	-.2090	.0270						.1740	.1960	.2470

PHI

X/LS .9670

PHI

.000 .3950

45.000 .3900

90.000 .2840

135.000 .4420

180.000 .4010

225.000 .0890

270.000 .2220

315.000 .3060

MACH (1) = 1.555

ALPHAT (8) = 6.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4400	.3050	.5190	-.1420	-.0810	-.0990	-.0520	.0210	.0010	.0220	.0480	.0110	.2990	.4210	.4450
45.000		.2620	.3640	-.1930	-.1380	-.0680							.3290	.4140	.4430
90.000		.1620	.1980	-.2520	-.2110	-.1490	-.1400	-.0240	.0290	-.0150	.1310	.0670	.3380	.3570	.3310
135.000		.0960	.1080	-.2830	-.2110	-.1470							.2740	.3360	.1490
180.000	1.4400	.0240	.1900	-.2660	-.2310	-.2010	-.0040	.0450	-.0210	-.0040	.2350	-.0520	.0620	.1460	.5220
225.000		.0010	.2030	-.3260	-.3500	-.3250	-.0180						.0920	.2050	.2400
270.000		.0830	.7510	.0170	-.3480	-.2950	.0220	.0300			.0750	-.0890	.0660	.0590	.1860
315.000		.2270	.6730	-.0930	-.1140	-.1550	.0040						.1920	.2210	.2980

X/LS .9670

PHI

.000 .4400

45.000 .4100

90.000 .2760

135.000 .3470

180.000 .3780

225.000 .0730

270.000 .2350

315.000 .3210

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R00601)

MACH (1) = 1.355

ALPHAT(9) = 8.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4170	.3670	.5680	-.1280	-.0340	-.0610	-.0050	.0190	-.0120	.0050	.0410	.0180	.3290	.4880	.4970
45.000		.2870	.3820	-.1850	-.1360	-.0660							.3030	.4170	.4590
90.000		.1420	.1930	-.2640	-.2330	-.1970	-.1840	-.1290	-.0160	-.0240	.1280	.0770	.2670	.3160	.3030
135.000		.0620	.0690	-.2980	-.2400	-.1740							.2450	.3480	.1510
180.000	1.4170	.0040	.1360	-.2790	-.2480	-.2260	-.0150	.0460	.0230	.0060	.2290	-.0280	.0210	.1660	.5030
225.000		-.0410	.0950	-.3810	-.3710	-.3510	-.0760						.0920	.2430	.1900
270.000		.0640	.7080	-.0010	-.3370	-.3550	-.0500	.0380			.0460	-.0870	.1050	.0860	.1900
315.000		.2720	.7200	-.0710	-.0690	-.0980	.0400						.1620	.2390	.3580

X/LS .9670

PHI

.000	.5210
45.000	.4310
90.000	.2510
135.000	.2420
180.000	.3350
225.000	.0580
270.000	.2460
315.000	.3600

MACH (2) = 2.000

ALPHAT(1) = -8.360

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5740	.0550	.0860	-.1490	-.1270	-.1480	-.1980	-.1890	-.2060	-.1570	-.1380	-.1250	-.1250	.2110	-.0610
45.000		.1140	.0920	-.1890	-.1790	-.0810							-.0110	.0100	-.0170
90.000		.1890	.2060	-.1430	-.1270	-.1010	-.1160	-.1670	-.2270	-.1800	-.1220	-.1910	-.0810	-.0090	.0200
135.000		.3320	.3390	-.0760	-.0380	-.0150							-.1890	-.0100	-.0550
180.000	1.5740	.4160	.4960	.0530	.0730	.0290	.0800	.0970	.0060	-.0190	.0330	-.1270	-.1910	-.0200	.2410
225.000		.3080	.8410	.1180	.0660	.0220	.1390						-.0960	.0130	.0620
270.000		.1160	.9540	.2390	-.1490	-.2010	-.0820	-.0970			.0170	-.1330	-.0320	-.0590	-.0010
315.000		.0210	.2120	-.1910	-.2950	-.3160	-.2270						-.0230	.0780	.0680

X/LS .9670

PHI

.000	-.1410
45.000	-.0250
90.000	.0260
135.000	.3370
180.000	.3690

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1617

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS01)

MACH (2) = 2.000

ALPHAT(1) = -8.360

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2480

270.000 .0790

315.000 .1340

MACH (2) = 2.000

ALPHAT(2) = -6.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.5960 .0910 .1000 -.1310 -.1030 -.1300 -.1720 -.1080 -.0230 -.0090 -.0290 -.0430 -.0930 .1540 .0600

45.000 .1440 .1300 -.1700 -.1570 -.0540 .0140 .0520 .0720

90.000 .2060 .2230 -.1320 -.1150 -.0880 -.0610 -.0880 -.1500 -.1880 -.1070 -.1510 -.0100 .0860 .1020

135.000 .3060 .3120 -.0880 -.0510 -.0170 -.1610 .0500 .0030

180.000 1.5960 .3620 .4200 .0130 .0470 -.0090 .0760 .1030 .0020 -.0340 .0540 -.1040 -.1750 .0140 .1910

225.000 .2710 .7850 .0970 .0290 -.0490 .1310 -.0850 .0340 .0330

270.000 .1270 .9800 .2590 -.1580 -.2280 -.0820 -.1050 .0310 -.1270 -.0240 -.0440 .0270

315.000 .0560 .3020 -.1380 -.2530 -.3140 -.2140 -.0420 .0720 .0700

X/LS .9670

PHI

.000 .0070

45.000 .0800

90.000 .0880

135.000 .2970

180.000 .3870

225.000 .2330

270.000 .1260

315.000 .1190

MACH (2) = 2.000

ALPHAT(3) = -4.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.6140 .1220 .1310 -.1150 -.0920 -.1150 -.1500 -.0360 .0030 -.0270 -.0620 -.0740 .0330 .0720 .0840

45.000 .1670 .1600 -.1610 -.1480 -.0320 .0520 .1320 .1620

90.000 .2170 .2280 -.1330 -.1130 -.0820 -.0419 -.0470 -.0970 -.1110 -.0670 -.0860 .0440 .2030 .1780

135.000 .2800 .2830 -.1060 -.0720 -.0200 -.0910 .1400 .0630

180.000 1.6140 .3100 .3510 -.0330 .0270 -.0370 .0730 .1030 .0070 -.0310 .0740 -.0840 -.1640 .0440 .0330

225.000 .2330 .7820 .0730 -.0150 -.1040 .1060 -.0770 .0460 .0300

AMES 97-707 1A9 O2A + S3 + T9 SRM BOOSTER

(RB7571)

MACH (2) = 2.000

ALPHAT(3) = -4.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

[illegible]

MACH (2) = 2.000

ALPHAT(4) = -2.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

[illegible]

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBOS01)

MACH (2) = 2.000

ALPHAT(5) = -.160

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6280	.2050	.2200	-.0990	-.0240	-.0780	-.1140	.0120	.0280	.0140	-.0070	-.0300	.0780	.1640	.1940
45.000		.2200	.2180	-.1300	-.1020	-.0190							.1770	.2780	.2930
90.000		.2260	.2360	-.1240	-.1030	-.0620	-.0010	.0090	.0330	.0100	-.0100	.0300		.2130	.3090
135.000		.2280	.2230	-.1320	-.0950	-.0350							.0530	.2900	.1680
180.000	1.6280	.2140	.2270	-.0930	-.0260	-.0840	.0890	.1220	.0240	-.0010	.2050	-.0080	-.1050	.1130	.0010
225.000		.1680	.5890	.0050	-.0960	-.1850	.0840						-.0390	.0760	.0920
270.000		.1310	1.0000	.2860	-.1470	-.2670	.0280	-.0240			.0440	-.1030	.0520	.0050	.0500
315.000		.1580	.5770	.0020	-.1020	-.1860	-.0230						.0620	.1080	.0760

X/LS .9670

PHI	
.000	.1980
45.000	.2760
90.000	.2480
135.000	.0880
180.000	.4200
225.000	.2320
270.000	.1610
315.000	.2060

MACH (2) = 2.000

ALPHAT(6) = 1.890

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6230	.2500	.2720	-.0760	.0070	-.0550	-.0820	.0180	.0290	.0210	.0080	-.0190	.1390	.2390	.2650
45.000		.2430	.2450	-.1150	-.0890	.0230							.2090	.2850	.3080
90.000		.2210	.2320	-.1250	-.1080	-.0690	-.0150	-.0040	.0560	.0310	-.0030	.0590	.2770	.4130	.3460
135.000		.1960	.1880	-.1430	-.1070	-.0430							.1590	.3650	.2330
180.000	1.6230	.1650	.1790	-.1120	-.0640	-.0990	.0800	.1260	.0320	.0110	.2380	.0260	-.0660	.1590	.0180
225.000		.1290	.4950	-.0350	-.1430	-.2200	.0950						-.0320	.0910	.0970
270.000		.1290	.9810	.2820	-.1390	-.2690	.0810	.0870			.0600	-.0980	.0660	.0060	.0250
315.000		.1930	.6420	.0370	-.0470	-.1440	-.0930						.1000	.1140	.1050

X/LS .9670

PHI	
.000	.2570
45.000	.2930
90.000	.2860
135.000	.1100
180.000	.3470

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO501)

MACH (2) = 2.000

ALPHAT(6) = 1.890

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2520

270.000 .1270

315.000 .2440

MACH (2) = 2.000

ALPHAT(7) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6120	.2960	.3230	-.0460	.0280	-.0310	-.0540	.0040	.0320	.0350	.0280	-.0210	.1940	.3170	.3220
45.000		.2660	.2740	-.1030	-.0730	.0320							.2510	.3360	.3480
90.000		.2140	.2300	-.1280	-.1110	-.0780	-.0390	-.0480	.0550	.0360	.0020	.0910	.3190	.3150	.3250
135.000		.1710	.1630	-.1580	-.1430	-.0540							.1990	.4420	.2540
180.000	1.6120	.1280	.1370	-.1150	-.1200	-.1170	.0320	.1250	.0490	.0280	.2660	.0550	-.0320	.2180	.0370
225.000		.0970	.4150	-.0780	-.1910	-.2640	.0400						-.0300	.1330	.1000
270.000		.1250	.9710	.2770	-.1340	-.2510	.0400	.1180			.0990	-.0900	.0750	.0500	.0770
315.000		.2300	.7240	.0710	-.0030	-.1040	-.0620						.1230	.1300	.1680

X/LS .9670

PHI

.000 .2980

45.000 .3310

90.000 .2760

135.000 .1350

180.000 .1760

225.000 .3200

270.000 .1700

315.000 .2700

MACH (2) = 2.000

ALPHAT(8) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5970	.3430	.3820	-.0120	.0450	-.0090	-.0260	.0160	.0340	.0350	.0340	-.0280	.2470	.3630	.3560
45.000		.2840	.2960	-.0970	-.0670	.0170							.2890	.3760	.3770
90.000		.1940	.2110	-.1400	-.1260	-.0940	-.0860	-.0760	.0350	.0200	.0140	.1050	.3240	.3350	.3460
135.000		.1390	.1210	-.1780	-.1670	-.0760							.1990	.5750	.2900
180.000	1.5970	.0910	.0840	-.1370	-.1110	-.1350	-.0200	.1030	.0600	.0210	.2790	.0910	.0160	.2210	.0380
225.000		.0610	.3180	-.1310	-.2390	-.2960	.0020						.0100	.1410	.0900

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA99

PAGE 1621

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO001)

MACH (2) = 2.000

ALPHAT (8) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1180	.9560	.2610	-.1280	-.2300	-.0440	.1160			.1050	-.0540	.0720	.0510	.1140
315.000		.2650	.7870	.0940	.0390	-.0670	-.0250						.1340	.1380	.2230

X/LS .9670

PHI

.000	.3530
45.000	.3510
90.000	.2990
135.000	.1600
180.000	-.0360
225.000	.3150
270.000	.1920
315.000	.3240

MACH (2) = 2.000

ALPHAT (9) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5720	.3960	.4570	.0270	.0590	.0110	-.0010	.0350	.0380	.0330	.0210	-.0260	.2680	.4080	.4030
45.000		.3040	.3160	-.0920	-.0600	.0160							.2900	.3540	.3580
90.000		.1780	.1910	-.1560	-.1410	-.1040	-.1310	-.1260	-.0130	-.0090	.0730	.1150	.2890	.3470	.3050
135.000		.1050	.0830	-.2010	-.1920	-.1000							.1680	.5460	.2560
180.000	1.5720	.0550	.0570	-.1620	-.1260	-.1510	-.0860	.0510	.0410	.0060	.2270	.1020	.0470	.1970	.0530
225.000		.0230	.2270	-.1880	-.2820	-.3040	-.0670						.0400	.0910	.0730
270.000		.1100	.9390	.2420	-.1320	-.2070	-.1530	.1340			.1240	-.0400	.0940	.0910	.1430
315.000		.2980	.8330	.1070	.0730	-.0250	.0120						.1550	.1620	.2570

X/LS .9670

PHI

.000	.4030
45.000	.3510
90.000	.2750
135.000	.1760
180.000	-.0410
225.000	.2660
270.000	.2180
315.000	.3730

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RB0502) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5020	.4390	.6250	-.1060	-.0140	-.0340	-.0100	.0850	.0730	.0600	.1210	.0490	.3030	.4530	.4300
45.000		.4360	.5360	-.1210	-.0470	.0630							.4220	.5250	.5040
90.000		.3030	.3590	-.1920	-.1370	-.0950	-.1110	-.1260	.0070	.0210	.2700	.1880	.4670	.4840	.4060
135.000		.1600	.1730	-.2540	-.2090	-.1680							.3580	.2970	.1440
180.000	1.5020	.0830	.2010	-.2530	-.2140	-.2120	-.1060	-.0050	.0930	.1140	.3810	.0650	-.0680	.1250	.2830
225.000		.0580	.1330	-.3630	-.3460	-.3330	-.0310						-.0100	.1610	.3520
270.000		.1210	.7240	.0060	-.3460	-.3000	-.0630	.1270			-.0630	-.0910	.1610	.2040	.2770
315.000		.3070	.7290	-.0720	-.0850	-.1250	.0130						.1910	.1690	.2150

X/LS .9670

PHI

.000 .4090
 45.000 .4760
 90.000 .3380
 135.000 .0370
 180.000 .3840
 225.000 .1880
 270.000 .3220
 315.000 .2820

MACH (1) = 1.555

BETAT (2) = -5.100

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4790	.4200	.6070	-.1120	-.0240	-.0430	-.0110	.0780	.0470	.0500	.1060	.0690	.3330	.4430	.4090
45.000		.3910	.4970	-.1420	-.0730	.0310							.4200	.5100	.4720
90.000		.2530	.3080	-.2150	-.1670	-.1190	-.1410	-.1450	-.0040	-.0180	.2260	.1630	.4050	.4200	.3580
135.000		.1320	.1360	-.2750	-.2180	-.1680							.3600	.3040	.1430
180.000	1.4790	.0590	.1800	-.2640	-.2240	-.2150	-.0880	.0510	.0520	.0960	.3300	.0440	-.0850	.1300	.3150
225.000		.0300	.1220	-.3740	-.3410	-.3360	-.0370						.0860	.2190	.3570
270.000		.1110	.7240	.0030	-.3470	-.3040	-.0550	.1040			-.0560	-.0800	.1240	.1400	.2250
315.000		.3000	.7310	-.0720	-.0840	-.1230	.0040						.1460	.1270	.2090

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1823

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO502)

MACH (1) = 1.555

BETAT (2) = -5.100

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3930
45.000	.4390
90.000	.2970
135.000	.0360
180.000	.3760
225.000	.1580
270.000	.2790
315.000	.2710

MACH (1) = 1.555

BETAT (3) = -3.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4590	.3980	.5940	-.1190	-.0340	-.0490	-.0260	.0630	.0240	.0340	.0780	.0660	.3300	.4320	.4020
45.000		.3510	.4650	-.1610	-.0920	-.0050							.4020	.4720	.4380
90.000		.2050	.2720	-.2340	-.1900	-.1490	-.1600	-.1710	-.0120	-.0330	.1980	.1260	.3580	.3740	.3110
135.000		.1000	.1180	-.2840	-.2250	-.1770							.3380	.3030	.1380
180.000	1.4590	.0320	.1700	-.2690	-.2310	-.2240	-.0460	.0510	.0200	.0630	.3060	.0050	-.0200	.1630	.3720
225.000		-.0030	.1070	-.3830	-.3460	-.3410	-.0490						.1000	.2170	.2780
270.000		.0890	.7200	-.0010	-.3450	-.3060	-.0580	.0830			-.0200	-.0680	.1030	.0780	.1630
315.000		.2850	.7320	-.0750	-.0810	-.1190	.0200						.0990	.1040	.2130

X/LS .9670

PHI

.000	.4010
45.000	.4060
90.000	.2520
135.000	.0390
180.000	.3460
225.000	.1070
270.000	.2240
315.000	.3040

AMES 97-707 1A9 C2A + 53 + T9 SRM BOOSTER

(RBO602)

MACH (1) = 1.555

BETAT (4) = 5.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3420	.3270	.5310	-.1430	-.0660	-.0670	-.0050	-.0470	-.0680	-.0260	.0830	.0660	.4390	.5440	.5440
45.000		.1850	.2810	-.2310	-.1990	-.1420							.2930	.3910	.4010
90.000		.0390	.0870	-.3120	-.2800	-.2290	-.1310	-.0540	-.0630	.0140	.1300	.0880	.2750	.2940	.1860
135.000		-.0090	.0480	-.3180	-.2390	-.1530							.2550	.3950	.3130
180.000	1.3420	-.0570	.1320	-.2950	-.2590	-.2300	.0250	.0200	.0090	.1140	.2030	-.0640	.1040	.3650	.3740
225.000		-.0930	.1010	-.3690	-.3710	-.3180	-.1250						.1330	.2870	.0900
270.000		.0320	.6930	-.0040	-.3340	-.3160	-.1310	-.0970			.0720	-.0780	.1010	.1600	.2290
315.000		.2670	.7020	-.0760	-.0440	-.0360	.0830						.2580	.3320	.4120

X/LS .9670

PHI

.000	.5350
45.000	.3570
90.000	.1810
135.000	.2190
180.000	.1870
225.000	.0250
270.000	.2380
315.000	.4320

MACH (1) = 1.555

BETAT (5) = 7.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3120	.3120	.5210	-.1470	-.0670	-.0550	-.0190	-.0650	.0520	.0360	.0330	.0210	.3680	.5130	.5250
45.000		.1520	.2510	-.2450	-.2210	-.1730							.3040	.3550	.3150
90.000		.0040	.0650	-.3210	-.2990	-.2290	-.0740	-.0090	-.1080	-.0300	.0760	.0490	.2890	.3140	.1440
135.000		-.0280	.0460	-.3150	-.2380	-.1560							.1990	.2800	.2980
180.000	1.3120	-.0770	.1230	-.2970	-.2680	-.2250	.0070	.0250	.0440	.1310	.1190	-.0760	.0580	.2970	.3180
225.000		-.1000	.1060	-.3700	-.3780	-.3080	-.1460						.0900	.2190	.0150
270.000		.0240	.6790	-.0120	-.3340	-.2880	-.1440				.0820	-.0820	.0480	.1100	.1670
315.000		.2630	.7000	-.0780	-.0360	.0250	.0820						.2080	.3640	.4560

X/LS .9670

PHI

.000	.5010
45.000	.2690
90.000	.1280
135.000	.2310
180.000	.1750

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1625

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R00602)

MACH (1) = 1.555

BETAT (5) = 7.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0320

270.000 .1630

315.000 .5050

MACH (1) = 1.555

BETAT (6) = 9.190

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.2880 .3090 .4980 -.1560 -.0670 -.0090 .0460 -.0050 .0030 -.0200 -.0360 -.0070 .3330 .5010 .5020

45.000 .1240 .1980 -.2650 -.2450 -.0570 .2450 .2930 .2650

90.000 -.0290 .0230 -.3350 -.3020 -.1020 -.0130 -.0550 -.0500 -.0610 .0290 -.0060 .2200 .2840 .1790

135.000 -.0500 .0430 -.3120 -.2270 -.0610 .1480 .2460 .3780

180.000 1.2880 -.0950 .1240 -.2930 -.2730 -.0350 .0550 .0580 .0180 .0140 .0310 -.1430 -.0200 .3480 .2680

225.000 -.0970 .1210 -.3570 -.3550 -.2620 -.0950 .0450 .1710 .0070

270.000 .0710 .6760 -.0100 -.3319 -.2470 -.0440 -.0680 .0590 -.1440 .0350 .0770 .1000

315.000 .3000 .6730 -.0850 -.0170 .0900 .0670 .2640 .4460 .4830

X/LS .9670

PHI

.000 .4740

45.000 .2390

90.000 .1300

135.000 .1970

180.000 .1090

225.000 -.0030

270.000 .1060

315.000 .5140

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.7510 .5060 .5450 .0910 .1240 .0770 .0310 .0730 .0990 .1200 .1330 .0670 .2760 .4080 .4000

45.000 .4950 .5150 .0070 .0580 .1220 .4120 .5190 .5220

90.000 .3700 .3980 -.0490 -.0320 -.0010 -.0250 -.0350 -.0420 .0190 .1840 .2360 .4700 .5250 .4960

135.000 .2500 .2250 -.1330 -.1280 -.0710 .3960 .3710 .2770

180.000 1.7510 .1650 .1930 -.1010 -.0610 -.0910 -.1690 -.0950 .0320 .0400 .3010 .2260 .1050 .4120 .1440

225.000 .1160 .3170 -.1390 -.2590 -.2900 -.0370 -.0410 -.0060 -.0970

AMES 97-707-IA9 02A + S3 + T9 SRM BOOSTER

(RDS012)

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

270.000	.1800	.9720	.2560	-.1180	-.2100	-.1490	.0860				.1530	-.1200	-.0300	.0590	.2070
315.000	.3520	.8610	.1290	.0870	-.0190	.0370						.2080	.2200	.2220	

X/LS .9670

PHI

.000	.3900
45.000	.5120
90.000	.4420
135.000	.1850
180.000	.0160
225.000	.1610
270.000	.2840
315.000	.2660

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7190	.4860	.5270	.0860	.1090	.0580	.0290	.0570	.0840	.1030	.0960	.0400	-.2730	-.0420	.4050
45.000		.4570	.4570	-.0170	.0290	.1160							-.3650	.0390	.4820
90.000		.3270	.3440	-.0700	-.0520	-.0250	-.0560	-.0570	-.0610	.0240	.1290	.2050	-.2230	.0310	.4500
135.000		.2180	.1970	-.1450	-.1360	-.0750							-.2790	-.1620	.2460
180.000	1.7190	.1390	.1600	-.1110	-.0730	-.1060	-.1680	-.0840	.0790	.0340	.2660	-.1300	-.2590	-.0460	.1380
225.000		.0980	.2890	-.1530	-.2670	-.2960	-.0590						-.5410	-.5170	-.0550
270.000		.1680	.9680	.2570	-.1200	-.2100	-.1580	.0820			.1640	-.2130	-.4770	-.3850	.2280
315.000		.3420	.8580	.1280	.0840	-.0240	.0240						-.2710	.2070	.2230

X/LS .9670

PHI

.000	.3950
45.000	.4750
90.000	.4000
135.000	.1640
180.000	.0220
225.000	.1920
270.000	.3170
315.000	.2930

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1627

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS02)

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6700	.4580	.5100	.0670	.0950	.0420	.0150	.0450	.0740	.0810	.0620	.0100	.2840	.4150	.4030
45.000		.4030	.4220	-.0360	.0010	.0870							.3460	.4430	.4430
90.000		.2780	.2960	-.0980	-.0800	-.0580	-.0850	-.0830	-.0830	.0010	.0940	.1700	.3930	.4250	.3980
135.000		.1860	.1630	-.1590	-.1520	-.0890							.1470	.2890	.2270
180.000	1.6700	.1140	.1190	-.1280	-.0890	-.1270	-.1350	-.0180	.0920	.0250	.2670	.1800	.0510	.3390	.1130
225.000		.0710	.2710	-.1590	-.2710	-.2960	-.0970						-.0490	-.0170	-.0110
270.000		.1500	.9550	.2530	-.1230	-.2130	-.1450	.0870			.1420	-.0920	.0470	.1170	.2020
315.000		.3320	.8520	.1250	.0790	-.0310	.0150						.1610	.1650	.2210

X/LS .9670

PHI

.000	.3940
45.000	.4340
90.000	.3570
135.000	.1620
180.000	-.0040
225.000	.2480
270.000	.2850
315.000	.2880

MACH (2) = 2.000

BETAT (4) = 3.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4900	.3680	.4540	-.0060	.0460	-.0010	-.0120	.0250	-.0080	-.0030	-.0060	-.0750	.2360	.3900	.4300
45.000		.2440	.2580	-.1070	-.0860	-.0430							.2470	.3160	.3200
90.000		.1110	.1190	-.1720	-.1620	-.1440	-.1710	-.0710	-.0550	-.0750	.0020	.0770	.2320	.3260	.1950
135.000		.0610	.0520	-.2020	-.1900	-.1010							.1280	.3890	.3080
180.000	1.4900	.0210	.0620	-.1530	-.1430	-.1510	.0190	.0520	.0030	.0260	.1670	.0080	.0700	.1870	.0360
225.000		-.0020	.2110	-.1770	-.2490	-.2390	-.1340						-.0120	.1390	.0720
270.000		.0890	.9010	.2290	-.1270	-.1880	-.1450	.0040			.0880	-.0770	.0400	.0380	.1260
315.000		.2920	.6130	.1140	.0880	.0000	.0350						.1230	.2590	.3410

X/LS .9670

PHI

.000	.4130
45.000	.2970
90.000	.1370
135.000	.1720
180.000	.2930

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0802)

MACH (2) = 2.000

BETAT (4) = 3.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .1440

270.000 .1830

315.000 .3340

MACH (2) = 2.000

BETAT (5) = 6.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4310	.3430	.4500	-.0210	.0300	-.0100	-.0130	.0090	-.0200	.0000	-.0090	-.1050	.2110	.3320	.3990
45.000		.1950	.2180	-.1230	-.1060	-.0760							.2290	.2990	.3280
90.000		.0660	.0810	-.1900	-.1810	-.1710	-.1750	-.0860	-.0990	-.0840	-.0010	.0500	.2680	.4440	.2680
135.000		.0270	.0290	-.2110	-.1970	-.1100							.1930	.4260	.2980
180.000	1.4310	-.0080	.0380	-.1660	-.1460	-.1650	.0190	.0320	-.0160	.0100	.0980	-.0170	-.0090	.1830	.0170
225.000		-.0210	.1870	-.1730	-.2770	-.2580	.0330						-.0190	.0780	.1980
270.000		.0760	.8930	.2200	-.1230	-.1820	-.1310	-.0100		.0500	-.0990	.0100	.0570	.1090	
315.000		.2850	.5460	.1260	.0880	.0100	.0740					.1450	.3800	.4250	

X/LS .9670

PHI

.000 .3860

45.000 .3260

90.000 .1730

135.000 .2060

180.000 .2880

225.000 .1060

270.000 .1520

315.000 .4000

MACH (2) = 2.000

BETAT (6) = 8.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3750	.3240	.4350	-.0310	.0100	-.0140	.0010	.0020	-.0200	.0420	-.0430	.0020	.2460	.3930	.4740
45.000		.1550	.1780	-.1430	-.1300	-.1060							.2740	.3060	.3110
90.000		.0260	.0420	-.2050	-.1970	-.1910	-.1470	-.1130	-.1490	-.0640	.0470	.0950	.2790	.4260	.2220
135.000		-.0030	.0040	-.2200	-.1980	-.1120							.0480	.3020	.1990
180.000	1.3750	-.0300	.0180	-.1830	-.1550	-.1770	.0210	-.0040	-.0450	-.0190	.1090	.0120	-.0850	.0720	.1800
225.000		-.0350	.1460	-.1610	-.2630	-.2560	.0710						-.0320	.0420	.2070

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1629

AMES 97-797 1A9 02A + S3 + T9 SRM BOOSTER

(RBO002)

MACH (2) = 2.000

BETAT (6) = 8.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9366
PHI															
270.000		.0700	.8930	.2110	-.1180	-.1730	-.0890	-.0810			.0430	-.0970	.0560	.0800	.1440
315.000		.2750	.4900	.1250	.0870	.0260	.0840						.2620	.4990	.3420
X/LS	.9670														
PHI															
.000	.4690														
45.000	.2800														
90.000	.1410														
135.000	.1800														
180.000	.2960														
225.000	.0420														
270.000	.2060														
315.000	.3640														

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(R00803) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORGINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5210	.3820	.5700	-.1210	-.0430	-.0690	-.0430	.0650	.0600	.0540	.1110	.0140	.2440	.3910	.3870
45.000		.4110	.5010	-.1250	-.0600	.0540							.3630	.4730	.4720
90.000		.3250	.3730	-.1820	-.1210	-.0620	-.0740	-.0900	.0680	.0430	.2500	.1700	.4320	.4860	.4080
135.000		.2080	.2120	-.2390	-.1770	-.1300							.3420	.3470	.1540
180.000	1.5210	.1190	.2450	-.2400	-.1930	-.1790	-.0190	.0590	.0640	.0720	.3420	.0300	-.0250	.1000	.3390
225.000		.0880	.2330	-.3160	-.3040	-.2920	-.0060						-.0150	.1290	.3440
270.000		.1410	.7650	.0220	-.3510	-.2640	-.0180	.1280		-.0900	-.1110	.1340	.2100	.2690	
315.000		.2710	.6790	-.0950	-.1260	-.1730	-.0110					.1740	.1600	.1980	

X/LS .9670

PHI

.000 .3610
 45.000 .4440
 90.000 .3350
 135.000 .0600
 180.000 .4130
 225.000 .2200
 270.000 .3100
 315.000 .2500

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5020	.3530	.5550	-.1260	-.0540	-.0820	-.0430	.0630	.0420	.0500	.0990	.0390	.2860	.3900	.3690
45.000		.3630	.4570	-.1420	-.0830	.0210							.3610	.4570	.4440
90.000		.2780	.3170	-.2020	-.1500	-.0840	-.0990	-.1080	.0600	.0100	.2160	.1420	.4030	.4270	.3710
135.000		.1740	.1790	-.2530	-.1940	-.1320							.3330	.3350	.1370
180.000	1.5020	.0890	.2250	-.2490	-.2060	-.1800	-.0110	.0740	.0390	.0580	.3130	.0110	-.0260	.1100	.4460
225.000		.0630	.2150	-.3210	-.2980	-.2960	-.0090						.0760	.1980	.3800
270.000		.1320	.7600	.0200	-.3510	-.2610	-.0180	.1080		-.0780	-.0870	.0940	.1320	.2060	
315.000		.2560	.6770	-.0950	-.1270	-.1740	-.0250					.1310	.1130	.1830	

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1631

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBC003)

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3490
45.000	.4130
90.000	.3020
135.000	.1770
180.000	.4010
225.000	.1800
270.000	.2610
315.000	.2400

MACH (1) = 1.555

BETAT (3) = -3.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4820	.3350	.5380	-.1320	-.0610	-.0920	-.0590	.0510	.0180	.0410	.0770	.0370	.2890	.3840	.3690
45.000		.3230	.4260	-.1600	-.0980	-.0120							.3480	.4340	.4150
90.000		.2310	.2750	-.2210	-.1660	-.1130	-.1200	-.0770	.0460	-.0040	.1920	.1110	.3820	.3880	.3370
135.000		.1410	.1570	-.2610	-.1980	-.1400							.3220	.3250	.1300
180.000	1.4820	.0710	.2120	-.2500	-.2130	-.1960	-.0030	.0670	.0160	.0590	.2970	.0030	.0300	.1590	.4800
225.000		.0350	.2120	-.3230	-.3270	-.3150	-.0060						.0850	.1910	.3220
270.000		.1090	.7560	.0180	-.3560	-.3050	.0030	.0930			.0010	-.0850	.0910	.0710	.1600
315.000		.2410	.6730	-.0940	-.1290	-.1730	-.0120						.0910	.0890	.1930

X/LS .9670

PHI

.000	.3550
45.000	.3870
90.000	.2720
135.000	.2220
180.000	.3900
225.000	.1330
270.000	.2160
315.000	.2610

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(R80603)

MACH (1) = 1.555

BETAT (4) = 5.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3670	.2690	.4850	-.1530	-.1000	-.1100	-.0200	-.0480	-.0310	-.0020	.0990	.0220	.4210	.5380	.5180
45.000		.1670	.2680	-.2300	-.1960	-.1360							.2730	.3660	.4070
90.000		.0640	.1160	-.2950	-.2530	-.1600	-.0490	-.0150	-.0230	.0280	.1220	.0840	.2710	.2950	.2160
135.000		.0260	.0780	-.2960	-.2170	-.1310							.2250	.3210	.3550
180.000	1.3670	-.0310	.1860	-.2670	-.2370	-.2040	.0020	.0210	-.0160	.0570	.1930	-.0670	.0880	.2780	.3870
225.000		-.0410	.2210	-.3150	-.3410	-.2860	-.0070						.1210	.2720	.1130
270.000		.0580	.7530	.0190	-.3450	-.2580	-.0350	-.1030			.1010	-.0900	.0870	.1190	.2240
315.000		.2190	.6720	-.0880	-.0910	-.1060	.0560						.2570	.3170	.3750

X/LS .9670

PHI

.000	.5130
45.000	.3550
90.000	.1920
135.000	.3210
180.000	.2180
225.000	.0060
270.000	.2600
315.000	.4090

MACH (1) = 1.555

BETAT (5) = 7.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3410	.2460	.4740	-.1610	-.1060	-.0970	-.0340	-.0790	.0550	.0380	.0410	-.0030	.3670	.4920	.5110
45.000		.1290	.2440	-.2460	-.2160	-.1670							.2730	.3510	.3210
90.000		.0280	.0920	-.3060	-.2630	-.1680	-.0250	.0400	-.0100	-.0150	.0810	.0610	.2910	.3100	.1720
135.000		.0000	.0880	-.2960	-.2190	-.1380							.1970	.2750	.3350
180.000	1.3410	-.0490	.1790	-.2720	-.2490	-.1460	-.0150	.0480	.0300	.1150	.1030	-.0780	.0720	.2610	.3440
225.000		-.0520	.2290	-.3090	-.3390	-.2420	-.0370						.0830	.1960	.0040
270.000		.0470	.7490	.0150	-.3450	-.2460	-.0750	-.2010			.0770	-.0810	.0270	.0750	.1490
315.000		.2170	.6570	-.0990	-.0820	-.0610	.0590						.1770	.3230	.4150

X/LS .9670

PHI

.000	.4830
45.000	.2790
90.000	.1720
135.000	.2630
180.000	.1860

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1633

AMES 97-757 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS03)

MACH (1) = 1.555

BETAT (5) = 7.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0140

270.000 .1620

315.000 .4690

MACH (1) = 1.555

BETAT (6) = 9.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3210 .2410 .4580 -.1670 -.1050 -.0700 .0360 -.0120 .0280 -.0010 -.0170 -.0140 .3210 .4790 .4850

45.000 .1030 .1960 -.2630 -.2390 -.0310 .2370 .3100 .3040

90.000 .0010 .0540 -.3180 -.2660 -.0660 .0400 -.0090 -.0210 -.0480 .0480 .0060 .2290 .2990 .1740

135.000 -.0170 .0740 -.3000 -.2190 -.0150 .1410 .2400 .3750

180.000 1.3210 -.0630 .1710 -.2760 -.2540 .0400 .0190 .1070 -.0120 -.0400 .0270 -.1420 -.0230 .2560 .2960

225.000 -.0540 .2390 -.3030 -.3260 -.1760 -.0070 .0370 .1600 -.0210

270.000 .0630 .7350 .0100 -.3380 -.2080 -.0390 -.0960 .0510 -.1420 .0220 .0720 .0870

315.000 .2210 .6500 -.1000 -.0690 .0090 .0550 .1720 .3780 .4280

X/LS .9670

PHI

.000 .4490

45.000 .2670

90.000 .1760

135.000 .2530

180.000 .1120

225.000 -.0210

270.000 .0960

315.000 .4680

MACH (2) = 2.000

BETAT (1) = -8.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.7630 .4300 .4590 .0570 .1000 .0520 -.0070 .0390 .0870 .0930 .1280 .0530 .2310 .3530 .3430

45.000 .4650 .4770 -.0080 .0360 .1310 .3890 .4980 .4980

90.000 .3860 .4190 -.0420 -.0190 .0000 -.0010 -.0040 .0350 .0720 .1410 .2300 .4700 .5560 .5010

135.000 .2830 .2690 -.1140 -.1020 -.0350 .3660 .3700 .2820

180.000 1.7630 .1980 .1940 -.0900 -.0390 -.0800 -.1700 -.0620 .1090 .0640 .3300 .2300 .0680 .3810 .1350

225.000 .1430 .3990 -.1010 -.2170 -.2890 .0510 -.1000 -.0440 -.1100

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBDS:13)

MACH (2) = 2.000

BETAT (1) = -8.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

FBI

270,000	.1900	1,0020	.2700	-.1220	-.2300	-.0480	.1350		.1130	-.1160	-.0370	.0380	.2010
315,000	.3190	.8090	.1060	.0460	-.0610	.0000					.1640	.1630	.1690

X/LS .9675

FMI

0.000	.3260
45.000	.4660
90.000	.4410
135.000	.1970
180.000	.0200
225.000	.1550
270.000	.2820
315.000	.2220

MACH (2) = 2.000

$$\text{BETAT} (2) = -6.250$$

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7330	.4270	.4470	.0390	.0840	.0330	-.0060	.0240	.0720	.0790	.0940	.0350	.2300	.3530	.3450
45.000		.4280	.4240	-.0360	.0030	.1000							.3630	.4710	.4720
90.000		.3480	.3460	-.0730	-.0480	-.0220	-.0250	-.0250	.0220	.0660	.0710	.2050	.4430	.5200	.4640
135.000		.2570	.2150	-.1300	-.1150	-.0430							.1850	.3600	.2840
180.000	1.7330	.1800	.1500	-.1070	-.0500	-.0910	-.1710	-.0430	.1300	.0680	.3240	.2030	.0400	.3460	.1040
225.000		.1280	.3790	-.1070	-.2220	-.2890	.0260						-.1120	-.0690	-.0840
270.000		.1740	.9940	.2690	-.1200	-.2280	-.0710	.1170			.1230	-.1040	.0100	.0680	.2090
315.000		.3070	.8040	.1040	.0480	-.0630	-.0170						.1440	.1360	.1660

X/L9 .9670

PHI

.000	.3370
45.000	.4350
90.000	.4040
135.000	.1930
180.000	.0010
225.000	.1750
270.000	.3050
315.000	.2260

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1635

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RB0603)

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6890	.3990	.4250	.0220	.0740	.0150	-.0190	.0190	.0650	.0650	.0640	.0150	.2440	.3650	.3550
45.000		.3740	.3890	-.0530	-.0180	.0670							.3360	.4420	.4360
90.000		.2830	.3110	-.0920	-.0760	-.0490	-.0500	-.0440	.0270	.0450	.0390	.1660	.4090	.4660	.4200
135.000		.2090	.1990	-.1440	-.1300	-.0600							.1520	.4310	.3010
180.000	1.6890	.1440	.1330	-.1210	-.0660	-.1080	-.1710	.0350	.1210	.0410	.3090	.1590	.0250	.2920	.0820
225.000		.1020	.3550	-.1140	-.2310	-.2950	-.0500						-.0780	-.0130	-.0150
270.000		.1590	.9720	.2650	-.1260	-.2340	-.0760	.1190			.1180	-.0950	.0410	.0880	.1630
315.000		.2960	.7910	.1000	.0400	-.0720	-.0270						.1220	.1170	.1720

X/LS .9670

PHI

.000	.3450
45.000	.4080
90.000	.3650
135.000	.1920
180.000	-.0310
225.000	.2110
270.000	.2550
315.000	.2380

MACH (2) = 2.000

BETAT (4) = 3.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5150	.3140	.3810	-.0360	.0250	-.0300	-.0390	.0110	-.0180	.0000	-.0030	-.0550	.2500	.3950	.4240
45.000		.2170	.2320	-.1210	-.0970	-.0340							.2220	.3050	.3010
90.000		.1280	.1380	-.1650	-.1560	-.1240	-.0980	-.0260	.0030	-.0220	.0090	.0710	.2390	.2980	.1760
135.000		.0870	.0790	-.1920	-.1760	-.0760							.1790	.3500	.2530
180.000	1.5150	.0520	.0780	-.1440	-.1020	-.1410	.0440	.0530	-.0090	.0250	.1170	-.0080	.0270	.1610	.0230
225.000		.0320	.3110	-.1200	-.2330	-.2210	-.0610						.0120	.1160	.0910
270.000		.0960	.9340	.2600	-.1320	-.2190	-.0620	.0520			.0710	-.0880	.0410	.0000	.1000
315.000		.2520	.6930	.1010	.0500	-.0490	-.0090						.1270	.2770	.3450

X/LS .9670

PHI

.000	.4150
45.000	.2850
90.000	.1810
135.000	.1280
180.000	.2840

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0503)

MACH (2) = 2.000

BETAT (4) = 3.970

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .1550

270.000 .1920

315.000 .2920

MACH (2) = 2.000

BETAT (5) = 6.030

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4600	.2920	.3720	-.0410	.0150	-.0400	-.0430	-.0060	-.0400	.0090	-.0050	-.0800	.2120	.3070	.3800
45.000		.1770	.1970	-.1340	-.1160	-.0700							.2050	.3140	.3290
90.000		.0880	.1040	-.1810	-.1710	-.1430	-.1060	-.0270	-.0310	-.0500	.0030	.0550	.2210	.3340	.2180
135.000		.0540	.0580	-.1980	-.1820	-.0880							.2250	.3580	.2770
180.000	1.4600	.0280	.0560	-.1560	-.1020	-.1570	.0270	.0220	-.0350	.0160	.0700	-.0260	.0400	.1530	.0550
225.000		.0210	.2870	-.1100	-.2200	-.0370							-.0610	.0610	.1850
270.000		.0890	.9310	.2510	-.1260	-.2110	-.0440	.0100			.0430	-.0990	.0200	.0470	.0960
315.000		.2440	.5270	.0940	.0540	-.0360	.0270						.0950	.3400	.3980

X/LS .9670

PHI

.000 .3780

45.000 .3330

90.000 .2000

135.000 .1610

180.000 .3180

225.000 .0910

270.000 .1860

315.000 .3600

MACH (2) = 2.000

BETAT (6) = 8.080

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4160	.2730	.3670	-.0520	-.0080	-.0480	-.0300	-.0090	-.0440	.0110	-.0230	-.0360	.2550	.3940	.4400
45.000		.1400	.1630	-.1530	-.1350	-.1030							.2690	.3350	.3190
90.000		.0520	.0630	-.1960	-.1870	-.1550	-.0950	-.0560	-.1010	-.0510	.0260	.0950	.2740	.3660	.2350
135.000		.0260	.0310	-.2090	-.1870	-.0970							.0940	.3170	.1860
180.000	1.4160	.0070	.0400	-.1660	-.1180	-.1680	.0110	-.0140	-.0520	.0000	.0990	.0300	-.0720	.0900	.1830
225.000		.0090	.2770	-.0990	-.2080	-.2420	.0630						-.0630	.0290	.2280

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO573)

BETAT (6) = 8.089

DEFENDENT VARIABLE CP

PHI													
270,000	.0790	.9260	.2400	-.1190	-.2040	.0610	-.0400		.0210	-.1000	.0430	.1010	.1290
315,000	.2400	.4910	.0980	.0570	-.0230	.0470					.1690	.4790	.3320

PHI	
.000	.4310
45.000	.2820
90.000	.1050
135.000	.1170
180.000	.3070
225.000	.0040
270.000	.2250
315.000	.3480

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS04) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.090

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5350	.3220	.5110	-.1440	-.0760	-.0980	-.0700	.0530	.0650	.0450	.0780	-.0100	.1860	.3300	.3240
45.000		.3810	.4600	-.1430	-.0740	.0410							.3160	.4350	.4300
90.000		.3450	.3680	-.1780	-.1150	-.0450	-.0490	-.0300	.1020	.0450	.2350	.1510	.4020	.4970	.3990
135.000		.2460	.2550	-.2220	-.1540	-.1000							.2930	.3410	.1440
180.000	1.5350	.1530	.2870	-.2260	-.1740	-.1500	.0230	.0840	.0410	.0360	.3550	.0160	-.0230	.1080	.4550
225.000		.1190	.3160	-.2730	-.2640	-.2510	.0050						-.0210	.1300	.3570
270.000		.1520	.7940	.0330	-.3340	-.2380	.0140	.1120			-.1010	-.1150	.1250	.1970	.2550
315.000		.2320	.6210	-.1260	-.1700	-.2040	-.0120						.1510	.1290	.1560

X/LS .9670

PHI

.000 .3040
 45.000 .4050
 90.000 .3210
 135.000 .3410
 180.000 .4510
 225.000 .2620
 270.000 .3070
 315.000 .2220

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5120	.2920	.4970	-.1480	-.0860	-.1150	-.0730	.0520	.0430	.0330	.0710	.0160	.2340	.3280	.3090
45.000		.3320	.4180	-.1540	-.0970	.0090							.3170	.4170	.4090
90.000		.2930	.3180	-.2020	-.1390	-.0630	-.0710	-.0090	.0880	.0180	.1960	.1300	.3940	.4670	.3730
135.000		.2080	.2240	-.2360	-.1740	-.1040							.2770	.3340	.1240
180.000	1.5120	.1210	.2740	-.2310	-.1870	-.1570	.0160	.0790	.0190	.0260	.3270	.0030	-.0340	.0980	.5030
225.000		.0890	.3150	-.2770	-.2720	-.2630	.0010						.0640	.1810	.4300
270.000		.1320	.7930	.0330	-.3380	-.2470	.0070	.1030			-.0970	-.0960	.1010	.1200	.1790
315.000		.2070	.6180	-.1260	-.1710	-.2140	-.0210						.1300	.0950	.1480

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1639

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RDS004)

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3000
45.000	.3820
90.000	.2900
135.000	.3530
180.000	.4390
225.000	.2110
270.000	.2420
315.000	.2130

MACH (1) = 1.555

BETAT (3) = -3.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4910	.2730	.4790	-.1540	-.0910	-.1230	-.0830	.0400	.0230	.0210	.0610	.0080	.2350	.3270	.3140
45.000		.2880	.3710	-.1660	-.1140	-.0150							.2970	.3670	.3800
90.000		.2460	.2780	-.2170	-.1560	-.0870	-.0910	-.0130	.0710	.0030	.1660	.1060	.3760	.4190	.3370
135.000		.1750	.1970	-.2430	-.1800	-.1160							.2520	.3290	.1120
180.000	1.4910	.0980	.2600	-.2300	-.1920	-.1740	.0130	.0700	-.0170	.0520	.2710	-.0230	.0330	.1470	.5220
225.000		.0690	.3080	-.2760	-.3130	-.2820	.0220						.0740	.1950	.3460
270.000		.1170	.7880	.0330	-.3580	-.2610	.0260	.0920			-.0200	-.1000	.0980	.0540	.1510
315.000		.1980	.6140	-.1240	-.1690	-.2220	-.0060						.1100	.0750	.1530

X/LS .9670

PHI

.000	.3140
45.000	.3610
90.000	.2610
135.000	.3560
180.000	.4090
225.000	.1510
270.000	.2240
315.000	.2520

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS04)

MACH (1) = 1.555

BETAT (4) = 5.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3860	.2070	.4310	-.1710	-.1260	-.1470	-.0220	-.0360	-.0240	.0390	.0930	-.0780	.3530	.5340	.5090
45.000		.1440	.2570	-.2360	-.1970	-.1240							.2440	.3400	.3590
90.000		.0780	.1220	-.2860	-.2300	-.1170	-.0230	.0100	-.0160	.0210	.1060	.0670	.3370	.2960	.1780
135.000		.0460	.1350	-.2740	-.2030	-.1250							.1780	.2460	.3990
180.000	1.3860	.0100	.2510	-.2490	-.2180	-.1760	-.0130	.0180	-.0380	.0160	.1770	-.0850	.0700	.2930	.3880
225.000		.0010	.3310	-.2600	-.3490	-.2300	.0340						.1060	.2550	.0940
270.000		.0780	.7990	.0380	-.3520	-.2450	.0340	-.0380			.1080	-.0900	.0680	.1040	.2160
315.000		.1750	.6290	-.1110	-.1460	-.1690	.0640						.2490	.3840	.4120

X/LS .9670

PHI

.000	.4990
45.000	.3430
90.000	.1940
135.000	.3370
180.000	.2260
225.000	-.0240
270.000	.2520
315.000	.4220

MACH (1) = 1.555

BETAT (5) = 7.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3590	.1870	.4190	-.1760	-.1320	-.1380	-.0370	-.0610	.0420	.0530	.0450	-.1170	.3700	.4910	.4950
45.000		.1080	.2190	-.2500	-.2130	-.1530							.2410	.3310	.3390
90.000		.0490	.1090	-.2970	-.2350	-.1270	-.0060	.0640	-.0040	-.0260	.0610	.0630	.3210	.3150	.1770
135.000		.0180	.1320	-.2750	-.2070	-.1230							.1580	.2200	.3580
180.000	1.3590	-.0080	.2340	-.2510	-.2250	-.0300	-.0420	.0730	-.0050	.0420	.0850	-.0940	.0660	.3040	.3630
225.000		-.0060	.3340	-.2550	-.3430	-.1300	.0000						.0930	.1810	.0140
270.000		.0740	.7960	.0380	-.3480	-.1790	.0050	-.1110			.0600	-.0890	.0050	.0360	.1210
315.000		.1730	.6200	-.1110	-.1370	-.1300	.0640						.1870	.3360	.3950

X/LS .9670

PHI

.000	.4680
45.000	.2950
90.000	.1930
135.000	.2750
180.000	.1880

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1641

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0504)

MACH (1) = 1.555

BETAT (5) = 7.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.1160

270.000 .1510

315.000 .4040

MACH (1) = 1.555

BETAT (6) = 9.100

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3410	.1850	.4170	-.1810	-.1420	-.1240	.0440	.0110	.0260	.0120	-.0280	-.1250	.3490	.4830	.4710
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45.000		.0880	.1780	-.2630	-.2330	-.0110							.2210	.3110	.3330
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90.000		.0270	.0790	-.3050	-.2430	-.0220	.0580	.0160	-.0230	-.0500	.0550	.0170	.2410	.3100	.2130
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135.000		-.0050	.1080	-.2860	-.2150	.0590							.1270	.2060	.3790
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180.000	1.3410	-.0170	.2240	-.2560	-.2240	.0410	-.0060	.1140	-.0240	-.0630	-.0010	-.1470	-.0040	.2530	.3270
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225.000		.0020	.3440	-.2470	-.3320	-.0150	.0240						.0320	.1630	-.0220
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270.000		.0890	.7920	.0370	-.3410	-.1100	.0180	.0260			.0180	-.1300	.0220	.0510	.0870
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315.000		.1690	.6180	-.1120	-.1220	-.0810	.0760						.1500	.3680	.3790
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X/LS .9670

PHI

.000 .4300

45.000 .2870

90.000 .2210

135.000 .2840

180.000 .1310

225.000 -.0650

270.000 .1000

315.000 .3970

MACH (2) = 2.000

BETAT (1) = -8.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7760	.3950	.3860	.0120	.0720	.0240	-.0440	.0000	.0680	.0660	.0940	.0300	.1730	.2770	.2780
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45.000		.4320	.4350	-.0270	.0100	.0960							.3460	.4650	.4620
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90.000		.3940	.4190	-.0370	-.0150	.0970	.0290	.0120	.0620	.0890	.1010	.1990	.4330	.5440	.4730
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135.000		.3150	.3060	-.0940	-.0780	-.0220							.2220	.4740	.3270
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180.000	1.7760	.2320	.2120	-.0880	-.0190	-.0670	-.1500	-.0410	.1450	.1040	.4010	.2060	.0480	.3280	.0940
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225.000		.1710	.4630	-.0620	-.1720	-.2370	.1010						-.0900	-.0350	-.0900
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AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBOS04)

MACH (2) = 2.000

BETAT (1) = -8.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000		.1960	1.0020	.2730	-.1280	-.2540	.0190	.1480			.0480	-.1350	-.0120	-.0050	.1640
315.000		.2840	.7360	.0750	.0030	-.0980	-.0420						.1100	.1330	.0630

X/LS .9670

PHI

.000	.2530
45.000	.4310
90.000	.4110
135.000	.2120
180.000	-.0040
225.000	.1660
270.000	.2720
315.000	.1630

MACH (2) = 2.000

BETAT (2) = -6.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7480	.3800	.3740	-.0120	.0590	.0060	-.0450	-.0070	.0620	.0560	.0740	.0220	.1760	.2870	.2900
45.000		.3970	.3890	-.0490	-.0200	.1060							.3280	.4410	.4360
90.000		.3560	.3540	-.0670	-.0420	-.0110	.0080	-.0100	.0610	.0830	.0620	.1760	.4020	.5050	.4420
135.000		.2860	.2550	-.1180	-.0960	-.0210							.1980	.5120	.3210
180.000	1.7480	.2150	.1880	-.1040	-.0400	-.0760	-.1500	.0360	.1280	.0920	.3630	.1660	.0300	.3030	.0760
225.000		.1560	.4590	-.0630	-.1740	-.2450	.0750						-.0820	-.0370	-.0250
270.000		.1790	.9990	.2770	-.1250	-.2510	.0110	.1330			.0570	-.1110	.0210	.0550	.1690
315.000		.2730	.7350	.0770	.0040	-.1020	-.0570						.1060	.1160	.0820

X/LS .9670

PHI

.000	.2650
45.000	.4040
90.000	.3820
135.000	.1980
180.000	-.0280
225.000	.1600
270.000	.2720
315.000	.1660

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R00804)

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7080	.3500	.3520	-.0250	.0490	-.0090	-.0530	-.0040	.0580	.0540	.0570	.0110	.1930	.3010	.3040
45.000		.3490	.3430	-.0700	-.0370	.0780							.3010	.4060	.4110
90.000		.3000	.3190	-.0860	-.0680	-.0410	-.0110	-.0280	.0610	.0620	.0440	.1430	.3800	.4560	.4060
135.000		.2380	.2360	-.1250	-.1070	-.0360							.2230	.5480	.3080
180.000	1.7080	.1790	.1760	-.1080	-.0560	-.0900	-.1510	.1050	.1110	.0590	.3150	.1340	.0180	.2550	.0740
225.000		.1360	.4340	-.0720	-.1850	-.2540	.0830						-.0520	.0230	.0060
270.000		.1650	.9900	.2760	-.1290	-.2550	.0190	.1220			.0850	-.0890	.0550	.0800	.1340
315.000		.2580	.7270	.0730	-.0040	-.1110	-.0660						.1070	.0960	.1100

X/LS .9670

PHI

.000	.2830
45.000	.3810
90.000	.3530
135.000	.1820
180.000	-.0380
225.000	.2230
270.000	.2180
315.000	.1760

MACH (2) = 2.000

BETAT (4) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5350	.2590	.3160	-.0600	.0030	-.0550	-.0650	.0210	-.0180	.0030	.0010	-.0360	.2060	.3720	.3490
45.000		.1950	.2070	-.1340	-.1080	-.0320							.1930	.2730	.2880
90.000		.1390	.1480	-.1600	-.1490	-.1080	-.0590	-.0080	.0240	-.0080	-.0070	.0520	.2790	.3490	.2370
135.000		.1120	.1070	-.1760	-.1570	-.0700							.1340	.3560	.2240
180.000	1.5350	.0840	.1180	-.1430	-.0790	-.1290	.0510	.0630	-.0160	-.0070	.1190	-.0170	-.0550	.1880	.0240
225.000		.0680	.4040	-.0680	-.1800	-.2400	.0800						.0250	.1130	.0720
270.000		.1000	.9530	.2760	-.1340	-.2430	.0980	.0910			.0660	-.0990	.0110	.0020	.0970
315.000		.2100	.6750	.0770	.0100	-.0910	-.0500						.1240	.2440	.3330

X/LS .9670

PHI

.000	.4080
45.000	.2680
90.000	.1930
135.000	.0870
180.000	.3280

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RDOS04)

MACH (2) = 2.000

BETAT (4) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .1380

270.000 .1700

315.000 .3010

MACH (2) = 2.000

BETAT (5) = 5.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4820	.2360	.2990	-.0520	-.0060	-.0640	-.0710	-.0020	-.0510	.0070	-.0030	-.0510	.2280	.3450	.3820
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45.000		.1540	.1740	-.1470	-.1230	-.0670							.1840	.2820	.3250
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90.000		.1020	.1180	-.1750	-.1630	-.1180	-.0690	-.0160	.0030	-.0340	-.0140	.0320	.2650	.3980	.2440
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135.000		.0780	.0810	-.1880	-.1630	-.0900							.2030	.3890	.2500
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180.000	1.4820	.0640	.1010	-.1510	-.0840	-.1400	.0110	.0290	-.0440	.0070	.0800	-.0380	-.0510	.1500	.0160
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225.000		.0580	.4070	-.0680	-.1790	-.2310	.0650						-.0650	.0680	.0870
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270.000		.0970	.9380	.2690	-.1270	-.2360	.0870	.0560			.0380	-.1160	-.0160	.0120	.0800
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315.000		.2060	.7100	.0740	.0120	-.0800	-.0370						.0580	.2530	.3930
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X/LS .9670

PHI

.000 .3970

45.000 .3350

90.000 .2100

135.000 .1120

180.000 .3540

225.000 .0760

270.000 .1730

315.000 .3210

MACH (2) = 2.000

BETAT (6) = 8.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4390	.2160	.2880	-.0700	-.0210	-.0750	-.0660	-.0170	-.0630	.0020	.0010	-.0350	.2330	.3210	.4230
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45.000		.1210	.1390	-.1620	-.1420	-.1000							.2440	.3300	.3110
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90.000		.0690	.0780	-.1890	-.1780	-.1140	-.0590	-.0090	-.0180	-.0550	.0060	.0700	.2910	.3830	.1890
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135.000		.0520	.0540	-.1950	-.1650	-.0940							.1410	.2880	.1660
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180.000	1.4390	.0450	.0770	-.1330	-.0980	-.1510	-.0140	-.0240	-.0640	-.0160	.0900	.0220	-.0790	.0680	.2010
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225.000		.0490	.4120	-.0580	-.1640	-.2200	.0760						-.0670	.0070	.2080
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TABULATED PRESSURE DATA - 1A9B

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO514)

BETAT (6) = 8.030

DEPENDENT VARIABLE CP

PHI													
270,000	.0860	.9070	.2640	-.1230	-.2300	.1060	-.0010		.0090	-.1120	.0250	.0730	.1000
315,000	.1990	.5550	.0650	.0130	-.0720	.0050					.0800	.4230	.3360

PHI	
.000	.4250
45.000	.2940
90.000	.1530
135.000	.0620
180.000	.2980
225.000	.5070
270.000	.2530
315.000	.3220

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS05) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.100

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5400	.2720	.4490	-.1700	-.1070	-.1300	-.0940	.0500	.0450	.0190	.0400	-.0100	.1660	.2820	.2520
45.000		.3470	.4190	-.1640	-.0950	.0210							.2890	.4200	.3820
90.000		.3510	.3720	-.1840	-.1100	-.0360	-.0370	.0190	.0940	.0360	.1920	.1140	.3470	.4800	.3710
135.000		.2870	.3130	-.2090	-.1400	-.0750							.2350	.3230	.1310
180.000	1.5400	.1870	.3430	-.2140	-.1540	-.1800	.0740	.0800	.0190	.0430	.3560	.0050	-.0960	.0830	.4790
225.000		.1450	.4090	-.2420	-.3220	-.2240	.0380						.0110	.1040	.4400
270.000		.1640	.8410	.0430	-.3740	-.2570	.0240	.0410			-.0870	-.1200	.1100	.0920	.1610
315.000		.2000	.5650	-.1610	-.2220	-.2670	.0060						.1050	.0490	.1040

X/LS .9670

PHI

.000 .2240
 45.000 .3450
 90.000 .2960
 135.000 .4010
 180.000 .5020
 225.000 .2890
 270.000 .2320
 315.000 .1880

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5230	.2420	.4410	-.1680	-.1130	-.1440	-.0840	.0400	.0320	.0150	.0330	.0120	.2090	.2810	.2430
45.000		.3020	.3800	-.1720	-.1120	-.0050							.3030	.4160	.3770
90.000		.3020	.3250	-.1980	-.1310	-.0510	-.0600	.0060	.0820	.0090	.1480	.1100	.3420	.4640	.3440
135.000		.2430	.2760	-.2150	-.1510	-.0870							.2150	.3100	.1160
180.000	1.5230	.1580	.3280	-.2140	-.1630	-.1920	.0590	.0640	-.0010	.0270	.2920	-.0030	-.0780	.1040	.5380
225.000		.1170	.3970	-.2350	-.3240	-.2340	.0390						.0650	.1390	.4630
270.000		.1370	.8180	.0430	-.3720	-.2660	.0180	.0400			-.0940	-.0890	.0910	.0510	.1130
315.000		.1730	.5480	-.1570	-.2220	-.2740	.0000						.0910	.0370	.1000

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1647

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RDC005)

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.2270
45.000	.3280
90.000	.2690
135.000	.4050
180.000	.4660
225.000	.2350
270.000	.1990
315.000	.1840

MACH (1) = 1.555

BETAT (3) = -3.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4970	.2220	.4210	-.1760	-.1250	-.1510	-.0870	.0310	.0200	.0090	.0270	-.0280	.1910	.2770	.2670
45.000		.2630	.3270	-.1780	-.1340	-.0180							.2770	.3810	.3600
90.000		.2560	.2810	-.2190	-.1510	-.0720	-.0800	-.0090	.0630	-.0030	.1250	.0960	.3210	.4320	.3180
135.000		.2090	.2390	-.2260	-.1630	-.0950							.1950	.2890	.0900
180.000	1.4970	.1390	.3140	-.2170	-.1690	-.1960	.0190	.0660	-.0300	.0500	.2510	-.0150	-.0210	.1120	.5180
225.000		.1010	.3920	-.2350	-.3230	-.2410	.0290						.0680	.1730	.3750
270.000		.1250	.8110	.0410	-.3700	-.2670	.0210	.0340			-.0310	-.1080	.1130	.0340	.1420
315.000		.1610	.5430	-.1590	-.2240	-.2770	.0040						.1020	.0600	.1280

X/LS .9670

PHI

.000	.2630
45.000	.3210
90.000	.2410
135.000	.3940
180.000	.4390
225.000	.1590
270.000	.2170
315.000	.2310

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R00605)

MACH (1) = 1.555

BETAT (4) = 5.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3900	.1490	.3780	-.1930	-.1540	-.1810	-.0020	-.0200	-.0170	.0440	.0710	-.0790	.2410	.4090	.4730
45.000		.1250	.2330	-.2460	-.2030	-.1090							.2410	.3220	.3480
90.000		.0980	.1290	-.2840	-.2060	-.0990	-.0230	.0280	-.0080	.0230	.0360	.0720	.3090	.3810	.2660
135.000		.0760	.1800	-.2580	-.2010	-.1240							.1360	.1950	.3730
180.000	1.3900	.0520	.2950	-.2240	-.1920	-.0710	-.0040	.0420	-.0530	-.0020	.1090	-.1110	.0760	.3030	.4050
225.000		.0450	.4250	-.2120	-.2970	-.0200	.0250						.1010	.2770	.1050
270.000		.0880	.8200	.0480	-.3580	-.1830	.0500	-.0040			.0940	-.1090	.0630	.1020	.2160
315.000		.1290	.5510	-.1440	-.1970	-.2280	.0480						.2150	.3830	.3770

X/LS .9670

PHI

.000	.4700
45.000	.3140
90.000	.2660
135.000	.3240
180.000	.2390
225.000	-.0390
270.000	.2570
315.000	.4030

MACH (1) = 1.555

BETAT (5) = 7.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3750	.1330	.3680	-.1970	-.1580	-.1740	-.0280	-.0430	.0400	.0520	.0250	-.1190	.2910	.5070	.4960
45.000		.0870	.1990	-.2570	-.2130	-.1360							.2140	.3210	.3030
90.000		.0600	.1130	-.2910	-.2130	-.1050	-.0080	.1060	.0350	-.0090	.0580	.0540	.3170	.3580	.2390
135.000		.0480	.1710	-.2710	-.2080	-.0640							.1360	.2050	.3410
180.000	1.3750	.0420	.2820	-.2330	-.1930	-.0490	-.0460	.0140	-.0310	.0170	.0520	-.1240	.0830	.3640	.3700
225.000		.0410	.4280	-.2080	-.2890	.0520	-.0080						.0960	.2260	.0010
270.000		.0840	.8210	.0490	-.3500	-.1030	.0290	-.0370			.0420	-.1170	.0050	.0410	.1150
315.000		.1240	.5620	-.1380	-.1860	-.1980	.0420						.1980	.3810	.3880

X/LS .9670

PHI

.000	.4680
45.000	.2800
90.000	.2400
135.000	.2600
180.000	.2020

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RB0505)

MACH (1) = 1.555

BETAT (5) = 7.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.1510

270.000 .1450

315.000 .3700

MACH (1) = 1.555

BETAT (6) = 9.090

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3500 .1300 .3690 -.2000 -.1670 -.1670 .0440 .0110 .0240 .0150 -.0300 -.1330 .3140 .5080 .4710

45.000 .0690 .1640 -.2700 -.2330 -.0120 .0430 .0010 -.0550 .0500 .0170 .2550 .3050 .2840

90.000 .0440 .0890 -.2970 -.2240 .0110 .0560 .0430 .0010 -.0550 .0500 .0170 .2550 .3050 .2840

135.000 .0320 .1400 -.2850 -.2240 .0860 .0750 -.0510 -.0740 -.0210 -.1610 .0220 .3150 .3480

180.000 1.3500 .0290 .2750 -.2310 -.1940 -.0270 -.0180 .0750 -.0510 -.0740 -.0210 -.1610 .0220 .3150 .3480

225.000 .0660 .4390 -.1940 -.2660 .0820 -.0120 .0430 .0010 -.0550 .0500 .0170 .2550 .3050 .2840

270.000 .1010 .8180 .0500 -.3400 -.0210 .0180 .0400 .0010 -.0550 .0500 .0170 .2550 .3050 .2840

315.000 .1260 .5740 -.1330 -.1720 -.1590 .0520 .0400 .0010 -.0550 .0500 .0170 .2550 .3050 .2840

X/LS .9670

PHI

.000 .4360

45.000 .3220

90.000 .2350

135.000 .2780

180.000 .1410

225.000 -.1400

270.000 .0800

315.000 .3550

MACH (2) = 2.000

BETAT (1) = -8.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.7850 .3460 .3270 -.0230 .0470 .0000 -.0760 .0010 .0520 .0530 .0410 -.0020 .1100 .2220 .2160

45.000 .4020 .3970 -.0450 -.0140 .0630 .0220 .0690 .0710 .0840 .1600 .3520 .5140 .4530

90.000 .3990 .4130 -.0340 -.0140 .0090 .0460 .0220 .0690 .0710 .0840 .1600 .3520 .5140 .4530

135.000 .3490 .3300 -.0800 -.0540 .0070 .0220 .0690 .0710 .0840 .1600 .3520 .5140 .4530

180.000 1.7850 .2700 .2460 -.0770 .0020 -.0450 -.1250 .0550 .1330 .1080 .3930 .1750 .0230 .2930 .0930

225.000 .1970 .5440 -.0230 -.1280 -.2010 .1060 .0550 .1330 .1080 .3930 .1750 .0230 .2930 .0930

AMES 97-707 1A9 O2A + S3 + 19 SRM BOOSTER

(R00305)

MACH (2) = 2.000

BETAT (1) = -8.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.2000	1.0120	.2810	-.1330	-.2710	.0940	.1420			.0690	-.1410	-.0140	.0120	.1300
315.000		.2490	.6730	.0430	-.0430	-.1340	-.0800					.0830	.0850	.0360	

X/LS .9670

PHI

.000	.2050
45.000	.3810
90.000	.3950
135.000	.2030
180.000	.2260
225.000	.1160
270.000	.2430
315.000	.1360

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7470	.3250	.3110	-.0470	.0330	-.0200	-.0810	-.0040	.0430	.0430	.0310	-.0090	.1230	.2350	.2350
45.000		.3680	.3530	-.0690	-.0430	.0130							.2660	.4010	.3910
90.000		.3610	.3580	-.0670	-.0440	-.0130	.0340	-.0050	.0550	.0630	.0560	.1330	.3310	.5000	.4380
135.000		.3180	.2870	-.1050	-.0840	.0010							.2040	.4670	.2910
180.000	1.7470	.2490	.2240	-.0970	-.0190	-.0570	-.1290	.1110	.1040	.0920	.3300	.1340	.0060	.2640	.0790
225.000		.1810	.5380	-.0260	-.1300	-.2110	.1590						-.0820	-.0260	-.0100
270.000		.1780	1.0100	.2820	-.1330	-.2700	.0750	.1100			.0740	-.1180	.0470	.0650	.1390
315.000		.2340	.6640	.0430	-.0450	-.1400	-.0960						.0840	.0830	.0530

X/LS .9670

PHI

.000	.2160
45.000	.3680
90.000	.3710
135.000	.1800
180.000	.2320
225.000	.1470
270.000	.2310
315.000	.1330

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1651

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS05)

MACH (2) = 2.000

BETAT (3) = -4.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7160	.2960	.3010	-.0580	.0150	-.0370	-.0880	.0020	.0420	.0420	.0200	-.0080	.1410	.2390	.2500
45.000		.3200	.3030	-.0920	-.0610	.0120							.2530	.3630	.3680
90.000		.3070	.3030	-.0880	-.0700	-.0350	.0090	-.0240	.0530	.0530	.0390	.1000	.3120	.4830	.4140
135.000		.2680	.2560	-.1150	-.0940	-.0140							.2330	.4060	.2670
180.000	1.7160	.2170	.2090	-.1050	-.0390	-.0750	-.1020	.1360	.0830	.0490	.2790	.1230	-.0100	.2460	.0670
225.000		.1660	.5140	-.0390	-.1440	-.2180	.1210						-.0470	.0620	.0240
270.000		.1640	1.0010	.2810	-.1400	-.2740	.0680	.0800			.0460	-.0980	.0780	.0410	.1110
315.000		.2220	.6520	.0370	-.0540	-.1510	-.1090						.0920	.0830	.0600

X/LS .9670

PHI	
.000	.2340
45.000	.3540
90.000	.3450
135.000	.1500
180.000	.2760
225.000	.2230
270.000	.1890
315.000	.1330

MACH (2) = 2.000

BETAT (4) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5350	.2090	.2540	-.0770	-.0210	-.0790	-.0860	.0230	.0000	-.0030	.0050	-.0280	.1560	.2870	.3130
45.000		.1750	.1850	-.1440	-.1150	-.0290							.1930	.2620	.2710
90.000		.1470	.1540	-.1580	-.1420	-.0940	-.0370	.0050	.0450	.0000	-.0120	.0430	.2490	.3520	.2810
135.000		.1320	.1360	-.1660	-.1300	-.0730							.1540	.2950	.1660
180.000	1.5350	.1230	.1500	-.1220	-.0670	-.1110	.0370	.0680	-.0220	-.0600	.1410	-.0230	-.0870	.1860	.0140
225.000		.1030	.4790	-.0320	-.1330	-.2010	.0830						.0550	.1310	.0440
270.000		.1040	.9450	.2900	-.1350	-.2590	.0850	.0670			.0450	-.1020	.0150	-.0190	.0850
315.000		.1740	.6130	.0380	-.0360	-.1330	-.0320						.0900	.2340	.2560

X/LS .9670

PHI	
.000	.3090
45.000	.2560
90.000	.2250
135.000	.0630
180.000	.2990

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0505)

MACH (2) = 2.000

BETAT (4) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .1310

270.000 .1550

315.000 .3580

MACH (2) = 2.000

BETAT (5) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4970	.1890	.2470	-.0840	-.0360	-.0900	-.0940	-.0020	-.0280	-.0020	-.0050	-.0280	.1670	.3530	.2950
45.000		.1370	.1540	-.1560	-.1320	-.0630							.1740	.2660	.3200
90.000		.1080	.1220	-.1710	-.1570	-.1040	-.0380	.0000	.0350	-.0190	-.0140	.0250	.2190	.3960	.3620
135.000		.0990	.1110	-.1770	-.1430	-.0720							.1940	.2880	.1860
180.000	1.4970	.1020	.1350	-.1230	-.0810	-.1200	-.0040	.0220	-.0530	-.0160	.0910	-.0350	-.0570	.1380	.1200
225.000		.0960	.4720	-.0300	-.1260	-.1990	.0620						-.0870	.0900	.0810
270.000		.0990	.9180	.2840	-.1260	-.2540	.0770	.0460			.0270	-.1240	-.0280	-.0130	.0770
315.000		.1680	.5930	.0360	-.0290	-.1230	.0090						.0530	.1900	.4220

X/LS .9070

PHI

.000	.4190
45.000	.3110
90.000	.2860
135.000	.1960
180.000	.2990
225.000	.0640
270.000	.1500
315.000	.3460

MACH (2) = 2.000

BETAT (6) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4530	.1660	.2290	-.0920	-.0460	-.1000	-.0870	-.0280	-.0470	.0000	.0190	-.0030	.1820	.3560	.4320
45.000		.1020	.1180	-.1710	-.1510	-.0960							.2130	.2970	.3010
90.000		.0760	.0850	-.1890	-.1740	-.1000	-.0150	.0130	.0150	-.0330	.0270	.0750	.2050	.4570	.2660
135.000		.0720	.0810	-.1890	-.1610	-.0980							.1340	.2170	.1030
180.000	1.4530	.0870	.1250	-.1220	-.0840	-.1310	-.0320	-.0420	-.0770	-.0250	.0780	-.0060	-.0850	.0600	.3050
225.000		.0870	.4770	-.0190	-.1120	-.1890	.0780						-.0610	.0120	.1940

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1653

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0805)

MACH (2) = 2.000

BETAT (6) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0930	.9110	.2760	-.1220	-.2460	.0950	.0110							
315.000		.1580	.5610	.0360	-.0270	-.1150	.0560								

PHI

270.000 .0930 .9110 .2760 -.1220 -.2460 .0950 .0110 -.0060 -.1260 .0190 .0650 .0410

315.000 .1580 .5610 .0360 -.0270 -.1150 .0560 .0420 .2400 .3940

X/LS .9670

PHI

.000 .4490

45.000 .2900

90.000 .2210

135.000 .2070

180.000 .2690

225.000 -.0280

270.000 .3070

315.000 .3160

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(R00S06) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUCFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.100

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5370	.2240	.3970	-.1850	-.1280	-.1560	-.1100	.0160	.0340	.0030	.0110	-.0470	.1380	.2390	.1900
45.000		.3120	.3630	-.1780	-.1140	.0030							.2170	.3660	.3170
90.000		.3510	.3650	-.1800	-.1070	-.0320	-.0310	.0280	.0540	.0000	.1410	.0590	.2700	.4210	.3340
135.000		.3190	.3570	-.1840	-.1160	-.0580							.1640	.2930	.1150
180.000	1.5370	.2290	.3930	-.1880	-.1290	-.1640	.1310	.1930	.0340	.0390	.2890	-.0180	-.0890	.0710	.5460
225.000		.1720	.4770	-.1970	-.2750	-.3230	.1650						.0190	.1050	.4490
270.000		.1670	.8310	.0490	-.3770	-.3550	.0130	-.1430			-.0710	-.1390	.0820	.0790	.1370
315.000		.1690	.4790	-.1920	-.2730	-.3130	.0080						.0760	.0480	.0900

X/LS .9670

PHI

.000 .1570
 45.000 .2950
 90.000 .2690
 135.000 .4440
 180.000 .5010
 225.000 .2460
 270.000 .2010
 315.000 .1560

MACH (1) = 1.555

BETAT (2) = -5.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5170	.1930	.3830	-.1930	-.1380	-.1700	-.1060	.0230	.0230	-.0040	.0070	-.0600	.1520	.2440	.2030
45.000		.2630	.3190	-.1940	-.1320	-.0200							.2240	.3680	.3140
90.000		.2970	.3150	-.2020	-.1360	-.0510	-.0530	-.0010	.0450	-.0070	.1010	.0570	.2630	.4080	.3060
135.000		.2740	.3100	-.1930	-.1360	-.0720							.1460	.2760	.1000
180.000	1.5170	.2000	.3840	-.1920	-.1390	-.1740	.0750	.1740	.0030	.0300	.2540	-.0310	-.0940	.1000	.5840
225.000		.1460	.4760	-.1970	-.2750	-.3240	.1190						.0540	.1740	.4140
270.000		.1430	.8290	.0470	-.3760	-.3570	-.0350	-.1360			-.0240	-.1230	.0960	.0300	.1250
315.000		.1400	.4750	-.1940	-.2780	-.3200	-.0100						.0870	.0500	.1030

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1655

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0506)

MACH (1) = 1.555

BETAT (2) = -5.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.1650
45.000	.2820
90.000	.2380
135.000	.4390
180.000	.4500
225.000	.1590
270.000	.2120
315.000	.1940

MACH (1) = 1.555

BETAT (3) = -3.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4960	.1750	.3700	-.1950	-.1530	-.1760	-.0950	.0250	.0210	-.0070	.0070	-.0590	.1580	.2490	.2240
45.000		.2310	.2720	-.2010	-.1460	-.0350						.2350	.3630	.3240	
90.000		.2570	.2770	-.2180	-.1540	-.0710	-.0480	-.0250	.0320	-.0180	.0810	.0600	.2570	.3900	.2900
135.000		.2400	.2800	-.1980	-.1470	-.0840							.1320	.2660	.1180
180.000	1.4960	.1810	.3760	-.1940	-.1440	-.1720	.0210	.1710	-.0340	.0300	.2150	-.0630	-.0170	.1230	.5770
225.000		.1310	.4760	-.1930	-.2710	-.3110	.0730						.0640	.2010	.3580
270.000		.1300	.8220	.0470	-.3690	-.3320	-.0700	-.0730			.0130	-.1240	.0710	-.0200	.1030
315.000		.1270	.4700	-.1940	-.2780	-.3170	-.0150						.0730	.0270	.0810

X/LS .9670

PHI

.000	.1920
45.000	.2790
90.000	.2160
135.000	.4250
180.000	.4100
225.000	.1040
270.000	.1830
315.000	.1890

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RDC0506)

MACH (1) = 1.555

BETAT (4) = 5.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3900	.0960	.3130	-.2170	-.1830	-.2050	.0030	-.0070	-.0180	.0290	.0700	-.0730	.1820	.3270	.3990
45.000		.0980	.1990	-.2600	-.2080	-.0920							.2730	.3330	.3290
90.000		.1000	.1380	-.2820	-.2080	-.0940	-.0380	.0280	-.0230	.0130	.1060	.0440	.1730	.2380	.2550
135.000		.1060	.2230	-.2540	-.2010	-.0780							.1210	.1830	.4100
180.000	1.3900	.1030	.3330	-.2080	-.1730	-.0320	-.0120	.0270	-.0710	-.0150	.1030	-.1280	.0640	.3330	.4100
225.000		.0880	.4890	-.1730	-.2470	-.0030	.0090						.0820	.2530	.1050
270.000		.0910	.8170	.0470	-.3580	-.1170	-.0410	.0030			.0810	-.1080	.0180	.0530	.1740
315.000		.0820	.4730	-.1790	-.2550	-.2770	.0200						.1130	.2010	.3470

X/LS .9670

PHI

.000	.4080
45.000	.3080
90.000	.2710
135.000	.3490
180.000	.2610
225.000	-.0580
270.000	.2060
315.000	.4170

MACH (1) = 1.555

BETAT (5) = 7.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3720	.0820	.3130	-.2180	-.1820	-.2030	-.0140	-.0250	.0460	.0250	.0240	-.1050	.2040	.3780	.4620
45.000		.0670	.1760	-.2640	-.2110	-.1100							.2510	.3010	.2830
90.000		.0630	.1110	-.2840	-.2120	-.0870	-.0300	.1200	.0130	-.0170	.0590	.0410	.2370	.2750	.2190
135.000		.0690	.1960	-.2590	-.2080	-.0740							.1120	.2040	.3660
180.000	1.3720	.0800	.3410	-.2080	-.1670	-.0060	-.0690	.0020	-.0420	-.0190	.0060	-.1590	.0740	.3530	.3820
225.000		.0800	.5130	-.1630	-.2240	.0270	-.0300						.0640	.1790	-.0040
270.000		.0940	.8230	.0510	-.3530	-.0450	-.0450	-.0180			.0300	-.1360	-.0190	.0010	.0960
315.000		.0820	.4860	-.1720	-.2430	-.2460	.0120						.1390	.2840	.2890

X/LS .9670

PHI

.000	.4540
45.000	.2620
90.000	.2180
135.000	.2730
180.000	.1990

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1657

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS06)

MACH (1) = 1.555

BETAT (5) = 7.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.1700

270.000 .1500

315.000 .3720

MACH (1) = 1.555

BETAT (6) = 9.090

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3490	.0740	.3050	-.2230	-.1890	-.2030	.0660	.0240	.0240	-.0220	-.0030	-.1160	.1980	.4810	.5210
45.000		.0450	.1430	-.2780	-.2270	-.0080							.1480	.2780	.3360
90.000		.0440	.1000	-.2910	-.2210	.0360	.0270	.0640	-.0130	-.0630	.0580	-.0140	.2110	.2480	.2710
135.000		.0530	.1610	-.2730	-.2250	.0810							.0540	.1910	.3640
180.000	1.3490	.0760	.3340	-.2090	-.1650	-.0080	-.0370	.0600	-.0560	-.0670	-.0500	-.1740	.0240	.3180	.3760
225.000		.1090	.5210	-.1510	-.1990	.0400	-.0390						-.0010	.1070	-.0720
270.000		.1420	.8220	.0520	-.3380	.0100	-.0460	.0690			-.0250	-.1730	-.0260	-.0110	.0270
315.000		.1000	.5000	-.1640	-.2290	-.1750	.0590						.1300	.4060	.3120

X/LS .9670

PHI

.000	.4820
45.000	.3050
90.000	.2460
135.000	.2740
180.000	.1510
225.000	-.1710
270.000	.1090
315.000	.3340

MACH (2) = 2.000

BETAT (1) = -8.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7820	.3000	.2690	-.0520	.0250	-.0260	-.1110	.0180	.0080	.0270	.0060	-.0250	.0610	.1630	.1580
45.000		.3680	.3570	-.0630	-.0330	.0380							.1880	.3610	.3400
90.000		.3990	.4150	-.0650	-.0180	.0070	.0420	.0240	.0660	.0420	.0500	.0990	.2440	.4710	.4110
135.000		.3760	.3650	-.0650	-.0320	.0310							.1490	.4330	.2850
180.000	1.7820	.3060	.2800	-.0540	.0240	-.0280	-.1030	.1620	.1260	.0990	.3550	.1370	-.0110	.2870	.0760
225.000		.2230	.6250	.0110	-.0910	-.1750	.1380						-.1130	-.0290	-.0610

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO508)

MACH (2) = 2.050

BETAT (1) = -8.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

FHI

270,000	.1960	1.0450	.2890	-.1380	-.2760	.1040	.0220		.5620	-.1490	.0160	.0370	.1410
315,000	.2180	.6160	.0090	-.0960	-.1720	-.0170					.0740	.0670	.0660

315.000	.2180	.6160	.0090	-.0960	-.1720	-.0170	.0740	.0670	.0880
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X/LS .9670

PHI

.0271 .1510

45,000 ,3170

90,000 ,3590

135.000 .1800

180,000 .3970

225.0001 .1360

270.000 .1880

315,000	.1190
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MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

x/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.007	1.7475	.2785	.2580	-.5690	.0100	-.0430	-.1110	.0070	.0100	.0220	.0020	-.0380	.0620	.1720	.1780
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45.000	.3370	.3170	-.0860	-.0620	.0180	.1950	.3500	.3350
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80.000	.3620	.3600	-.0630	-.0460	-.0180	.0260	-.0020	.0420	.0340	.0370	.0700	.2550	.4370	.3760
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[illegible][illegible][illegible][illegible][illegible]

X/LS .9670

FBI

.000 .1670

45.000 .3080

90.700 .3279

135.000	1589
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189,000	4,250
180,000	3,750

207.555	1975
225.000	1930

225.000	.1950
230.000	1300

270.000	.1700
315.000	.1130

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1659

AMES 97-707 IA9-02A + S3 + T9 SRM BOOSTER

(RBOS06)

MACH (2) = 2.000

BETAT (3) = -.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6120	.1900	.2060	-.1070	-.0280	-.0840	-.1150	.0040	.0270	.0130	-.0030	-.0290	.0900	.1830	.2120
45.000		.2010	.1990	-.1370	-.1080	-.0270							.1870	.2860	.2990
90.000		.2090	.2120	-.1310	-.1100	-.0690	-.0180	.0050	.0270	.0080	-.0120	.0360	.2270	.3810	.3190
135.000		.2070	.2050	-.1380	-.1010	-.0460							.0650	.3050	.1730
180.000	1.6120	.2000	.2130	-.1010	-.0300	-.0890	.0700	.1090	.0180	-.0300	.2300	-.0060	-.1010	.1230	.0070
225.000		.1590	.5810	.0040	-.0970	-.1860	.0650						-.0340	.0770	.1140
270.000		.1240	.9860	.2860	-.1430	-.2750	.0170	-.0410			.0460	-.1030	.0510	-.0170	.0580
315.000		.1510	.5620	.0010	-.1020	-.1870	-.0350						.0680	.1080	.0740

X/LS .9670

PHI

.000	.2110
45.000	.2910
90.000	.2610
135.000	.0890
180.000	.4240
225.000	-.2200
270.000	.1720
315.000	.2180

MACH (2) = 2.000

BETAT (4) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5170	.1490	.1820	-.1090	-.0500	-.1060	-.1170	.0110	.0050	-.0070	-.0050	-.0290	.1160	.2340	.2770
45.000		.1330	.1460	-.1570	-.1310	-.0330							.2080	.2760	.2620
90.000		.1290	.1450	-.1590	-.1430	-.1080	-.0330	-.0180	.0320	-.0140	-.0150	.0250	.1600	.2430	.2340
135.000		.1360	.1520	-.1590	-.1240	-.0660							.1370	.2300	.1130
180.000	1.5170	.1540	.1870	-.1070	-.0490	-.1010	.0000	.0470	-.0370	-.0690	.1150	-.0660	-.0630	.1740	.1610
225.000		.1320	.5340	.0030	-.0850	-.1720	.0650						.0270	.1010	.0100
270.000		.0990	.9240	.2900	-.1400	-.2690	.0080	-.0430			.0500	-.1160	.0050	-.0130	.0670
315.000		.1290	.5270	-.0010	-.0910	-.1810	-.0210						.0440	.1650	.1840

X/LS .9670

PHI

.000	.2730
45.000	.2420
90.000	.1900
135.000	.1840
180.000	.2800

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(R00S06)

MACH (2) = 2.000

BETAT (4) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0710

270.000 .1650

315.000 .3430

MACH (2) = 2.000

BETAT (5) = 3.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4810	.1320	.1790	-.1200	-.0690	-.1180	-.1110	-.0050	-.0180	-.0060	-.0080	-.0230	.0900	.2560	.3150
45.000		.1050	.1150	-.1770	-.1500	-.0610							.1950	.3010	.3200
90.000		.0990	.1050	-.1800	-.1510	-.1160	-.0130	-.0220	.0260	-.0320	-.0110	.0040	.2440	.3610	.3040
135.000		.1110	.1190	-.1780	-.1450	-.0900							.1520	.2500	.1390
180.000	1.4810	.1370	.1860	-.1100	-.0590	-.1080	-.0320	-.0040	-.0710	-.0520	.0620	-.0060	-.0670	.1240	.3380
225.000		.1220	.5320	.0060	-.0730	-.1590	.0510						-.0380	.0570	.1390
270.000		.0920	.9070	.2810	-.1250	-.2560	.0050	-.0350			.0380	-.1360	-.0140	-.0230	.0830
315.000		.1200	.5130	.0000	-.0790	-.1670	-.0080						.0320	.1750	.2940

Y/LS .9670

PHI

.000 .3370

45.000 .3050

90.000 .2590

135.000 .3640

180.000 .2830

225.000 .0020

270.000 .1510

315.000 .3860

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1661

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO607) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5370	.1830	.3420	-.2080	-.1550	-.1820	-.1280	-.0090	.0190	-.0250	-.0080	-.0810	.1030	.1660	.1230
45.000		.2780	.3170	-.1980	-.1380	-.0210							.1200	.2860	.2600
90.000		.3510	.3690	-.1770	-.1120	-.0370	-.0360	.0080	-.0160	-.0250	.0750	-.0060	.1720	.3620	.2940
135.000		.3530	.4090	-.1630	-.1000	-.0390							.0690	.2650	.2660
180.000	1.5370	.2760	.4480	-.1670	-.1070	-.1390	.1410	.2090	.0250	.0380	.2460	-.0370	-.1710	.0660	.6100
225.000		.2050	.5480	-.1650	-.2320	-.2830	.1940						.0050	.0980	.4490
270.000		.1650	.8270	.0420	-.3830	-.4140	-.1480	-.1960			-.0440	-.1780	.0740	.0360	.1060
315.000		.1460	.4020	-.2310	-.3290	-.3520	-.0290						.0580	.0410	.0980

X/LS .9670

PHI

.000 .1010
 45.000 .2320
 90.000 .3470
 135.000 .5160
 180.000 .4940
 225.000 .2170
 270.000 .1810
 315.000 .1530

MACH (1) = 1.555

BETAT (2) = -5.090

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5160	.1540	.3250	-.2160	-.1640	-.1930	-.1320	.0050	.0110	-.0230	-.0150	-.0710	.1240	.1840	.1360
45.000		.2370	.2740	-.2110	-.1520	-.0370							.1420	.3110	.2550
90.000		.2960	.3240	-.1970	-.1370	-.0540	-.0120	-.0210	-.0210	-.0340	.0440	.0030	.1820	.3520	.2780
135.000		.3050	.3700	-.1700	-.1150	-.0570							.0580	.2540	.4310
180.000	1.5160	.2460	.4390	-.1680	-.1130	-.1400	.0630	.1820	-.0010	.0280	.2080	-.0470	-.1160	.1040	.6190
225.000		.1760	.5490	-.1610	-.2290	-.2570	.1590						.0480	.1870	.3970
270.000		.1380	.8230	.0430	-.3800	-.4490	-.1860	-.1890			-.0230	-.1360	.0760	-.0010	.0890
315.000		.1170	.3920	-.2330	-.3320	-.3560	-.0460						.0730	.0500	.1100

X/LS .9670

AMES 97-707 IA9 02A + 53 + T9 SRM BOOSTER

(RBOS07)

MACH (1) = 1.555

BETAT (2) = -5.090

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.1130
45.000	.2320
90.000	.3360
135.000	.4850
180.000	.4310
225.000	.1270
270.000	.1710
315.000	.1650

MACH (1) = 1.555

BETAT (3) = -3.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4940	.1340	.3100	-.2210	-.1750	-.1970	-.1150	.0150	.0110	-.0230	-.0090	-.0850	.1070	.1640	.1560
45.000		.2050	.2320	-.2240	-.1640	-.0500							.1630	.3150	.2640
90.000		.2550	.2790	-.2140	-.1570	-.0720	-.0160	-.0490	-.0240	-.0390	.0320	-.0040	.1780	.3370	.2580
135.000		.2680	.3320	-.1790	-.1310	-.0740							.0510	.2330	.4410
180.000	1.4940	.2290	.4260	-.1720	-.1210	-.1440	.0150	.1690	-.0450	.0030	.1850	-.0680	-.0720	.1160	.6010
225.000		.1670	.5500	-.1600	-.2250	-.1170	.1150						.0290	.1670	.3540
270.000		.1270	.8150	.0410	-.3750	-.4310	-.2270	-.1050			.0080	-.1450	.0630	-.0380	.0970
315.000		.0980	.3880	-.2340	-.3310	-.3550	-.0550						.0750	.0540	.1060

X/LS .9670

PHI

.000	.1390
45.000	.2290
90.000	.3180
135.000	.4610
180.000	.3960
225.000	.0700
270.000	.1750
315.000	.1630

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1663

AMES 97-707 IA9 02A + S3 + J9 SRM BOOSTER

(RBOS07)

MACH (1) = 1.555

BETAT (4) = 5.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3670	.0560	.2560	-.2370	-.2080	-.2180	.0150	.0090	-.0240	.0220	.0630	-.0940	.1610	.3140	.3230
45.000		.0740	.1660	-.2670	-.2070	-.0830							.2720	.3660	.3060
90.000		.0950	.1500	-.2770	-.2070	-.1000	-.0700	.0190	-.0480	-.0100	.0740	.0170	.1600	.2420	.2960
135.000		.1280	.2480	-.2430	-.1960	-.0710							.0950	.2000	.4300
180.000	1.3670	.1470	.3870	-.1920	-.1480	.0270	-.0320	.0170	-.1060	-.0800	.0530	-.1410	.0570	.3140	.4420
225.000		.1260	.5590	-.1430	-.1950	.0540	-.0110						.0850	.2310	.1140
270.000		.0940	.8050	.0400	-.3610	-.2740	-.2750	-.0500			.0710	-.1270	.0270	.0490	.1580
315.000		.0540	.3830	-.2270	-.3130	-.3170	-.0050						.0890	.1680	.3150

X/LS .9670

PHI

.000	.4030
45.000	.2870
90.000	.2860
135.000	.3610
180.000	.2760
225.000	-.0550
270.000	.1810
315.000	.3730

MACH (1) = 1.555

BETAT (5) = 7.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3680	.0380	.2650	-.2370	-.2090	-.2200	.0140	-.0020	.0400	.0210	.0320	-.0950	.1570	.3100	.3600
45.000		.0500	.1460	-.2720	-.2120	-.0950							.2580	.3860	.2730
90.000		.0680	.1250	-.2860	-.2120	-.0680	-.0780	.1190	-.0200	-.0600	.0360	.0040	.1860	.2200	.2320
135.000		.1030	.2180	-.2500	-.2060	-.0940							.1020	.2240	.3640
180.000	1.3680	.1440	.3910	-.1840	-.1290	.0250	-.0950	-.0060	-.0500	-.0180	-.0310	-.1640	.0790	.3070	.3910
225.000		.1290	.5820	-.1290	-.1560	.0770	-.0590						.0570	.1470	.0090
270.000		.0900	.8100	.0420	-.3530	-.2220	-.2700	-.0560			.0380	-.1490	-.0280	-.0210	.0670
315.000		.0510	.4020	-.2160	-.2990	-.2230	-.0040						.0790	.1560	.3050

X/LS .9670

PHI

.000	.4020
45.000	.2510
90.000	.2240
135.000	.2870
180.000	.1940

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RDCS07)

MACH (1) = 1.555

BETAT (5) = 7.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.1510

270.000 .0990

315.000 .3760

MACH (1) = 1.555

BETAT (6) = 9.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3500	.0260	.2480	-.2450	-.2160	-.2230	.0800	.0430	.0230	-.0260	.0190	-.1070	.1030	.3250	.4760
45.000		.0250	.1220	-.2830	-.2200	-.0020							.1760	.3220	.3050
90.000		.0370	.1000	-.2960	-.2200	.0480	-.0270	.0630	-.0460	-.1010	.0360	-.0500	.1490	.2200	.2490
135.000		.0740	.1780	-.2630	-.2250	.0850							.0550	.2070	.3090
180.000	1.3500	.1290	.3020	-.1870	-.1250	.0060	-.0470	.0530	-.0770	-.0770	-.0690	-.1930	.0340	.3210	.3620
225.000		.1380	.5930	-.1210	-.1390	.0760	-.0930						-.0030	.0790	-.1410
270.000		.1270	.8090	.0410	-.3460	-.2050	-.1870	.0130			-.0210	-.1750	-.0540	-.0550	.0110
315.000		.0690	.4040	-.2090	-.2900	-.1460	.0410						.0370	.1970	.3150

X/LS .9670

PHI

.000 .4790

45.000 .3140

90.000 .2100

135.000 .2570

180.000 .1580

225.000 -.1310

270.000 .0820

315.000 .3680

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7820	.2570	.2400	-.0660	.0020	-.0430	-.1320	.0020	-.0060	.0000	.0000	-.0390	.0530	.1170	.1070
45.000		.3360	.3290	-.0780	-.0550	.0510							.1020	.2580	.2510
90.000		.3980	.4230	-.0320	-.0130	.0140	.0520	.0250	.0640	.0180	.0170	.0200	.1250	.3530	.3320
135.000		.4090	.4090	-.0450	-.0040	.0520							.0760	.3840	.2430
180.000	1.7820	.3510	.3420	-.0110	.0510	-.0050	-.0700	.2340	.1260	.1290	.3560	.1040	-.0460	.2690	.0650
225.000		.2480	.6810	.0420	-.0510	-.1380	.1280						-.1470	-.0400	-.1110

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1665

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(R00507)

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1960	1.0330	.2840	-.1540	-.2740	.0710	-.0590			.0840	-.1980	-.0440	.0310	.1490
315.000		.1850	.5340	-.0310	-.1430	-.1970	.0030					.0650	.0540	.0700	

X/LS .9670

PHI

.000	.0820
45.000	.2390
90.000	.3090
135.000	.1540
180.000	.4520
225.000	.1440
270.000	.1850
315.000	.1090

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7430	.2380	.2210	-.0820	-.0120	-.0580	-.1330	-.0100	.0010	.0000	-.0080	-.0460	.0330	.1180	.1120
45.000		.3110	.2930	-.0970	-.0790	.0350							.1080	.2640	.2550
90.000		.3690	.3670	-.0590	-.0430	-.0110	.0330	.0170	.0370	-.0050	-.0090	.0080	.1130	.3330	.3030
135.000		.3810	.3720	-.0650	-.0300	.0300							.0590	.3330	.2140
180.000	1.7430	.3370	.3310	-.0270	.0320	-.0250	.0930	.1980	.1010	.1040	.2840	.0850	-.0630	.1820	.0580
225.000		.2400	.6870	.0470	-.0490	-.1440	.1070						-.1230	-.0250	-.0290
270.000		.1810	1.0340	.2880	-.1540	-.2720	.0250	-.0820			.0830	-.1930	.0110	.0740	.1450
315.000		.1730	.5290	-.0320	-.1460	-.2060	-.0090						.0430	.0580	.0780

X/LS .9670

PHI

.000	.0850
45.000	.2360
90.000	.2720
135.000	.1300
180.000	.4160
225.000	.2060
270.000	.1880
315.000	.1230

AMES 97-707 1A9 QCA + S3 + T9 SRM BOOSTER

(R80507)

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7110	.2150	.2040	-.0950	-.0290	-.0740	-.1350	-.0190	.0160	.0020	-.0150	-.0530	.0400	.1260	.1160
45.000		.2700	.2570	-.1110	-.0850	.0170							.1110	.2690	.2550
90.000		.3130	.3160	-.0860	-.0650	-.0310	.0160	.0260	.0100	-.0250	-.0150	-.0040	.1130	.3130	.2860
135.000		.3330	.3230	-.0820	-.0420	.0240							.0260	.2880	.1700
180.000	1.7110	.3080	.3230	-.0410	.0260	-.0340	.1330	.1700	.0790	.0530	.2370	.0350	-.0850	.1460	.0390
225.000		.2290	.6750	.0400	-.0580	-.1490	.0700						-.0770	.0400	.0260
270.000		.1600	1.0260	.2870	-.1560	-.2760	-.0310	-.0960			.0820	-.1380	.0530	.0520	.1040
315.000		.1570	.5070	-.0390	-.1530	-.2130	-.0180						.0340	.0530	.0520

X/LS .9670

PHI

.000	.1050
45.000	.2350
90.000	.2450
135.000	.0990
180.000	.3890
225.000	.2540
270.000	.1650
315.000	.1210

MACH (2) = 2.000

BETAT (4) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5380	.1220	.1450	-.1240	-.0730	-.1230	-.1250	.0210	.0180	-.0160	-.0150	-.0420	.0570	.1940	.1840
45.000		.1320	.1320	-.1650	-.1350	-.0590							.1760	.3530	.2720
90.000		.1470	.1520	-.1570	-.1350	-.0980	-.0170	-.0510	-.0070	-.0460	-.0310	-.0190	.1050	.2140	.1870
135.000		.1790	.1890	-.1440	-.1100	-.0670							.0470	.1610	.0750
180.000	1.5380	.2180	.2650	-.0700	-.0180	-.0730	.0050	.0470	-.0460	-.0850	.0930	-.1190	-.0630	.0660	.3310
225.000		.1790	.6260	.0420	-.0360	-.1180	.0570						-.0260	.0790	.0560
270.000		.1110	.9530	.2880	-.1460	-.2580	-.1210	-.1380			.0360	-.1310	-.0090	-.0300	.0550
315.000		.1030	.4660	-.0370	-.1440	-.2140	-.0450						.0040	.0760	.1290

X/LS .9670

PHI

.000	.1800
45.000	.2410
90.000	.1570
135.000	.2710
180.000	.2810

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1667

AMES 97-797 IA9 Q2A + S3 + T9 SRM BOOSTER

(RBOS07)

MACH (2) = 2.000

BETAT (4) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0390

270.000 .1470

315.000 .2760

MACH (2) = 2.000

BETAT (5) = 5.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4860	.0940	.1240	-.1290	-.0900	-.1340	-.1050	.0200	-.0020	-.0140	-.0160	-.0380	.0380	.1810	.2070
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45.000		.0930	.1010	-.1790	-.1520	-.0450							.1310	.3550	.3230
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90.000		.1040	.1150	-.1740	-.1630	-.1050	-.0170	-.0590	-.0080	-.0710	-.0430	-.0330	.1210	.2210	.2290
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135.000		.1380	.1550	-.1580	-.1310	-.0940							.0740	.1330	.1020
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180.000	1.4860	.1920	.2520	-.0750	-.0330	-.0790	-.0310	-.0070	-.0760	-.0750	.0380	-.1400	-.0520	.0980	.3340
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225.000		.1680	.6030	.0390	-.0310	-.1070	.0360						-.0140	.0480	.1030
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270.000		.0970	.9160	.2800	-.1350	-.2540	-.1270	-.1520			.0240	-.1550	-.0380	-.0500	.0670
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315.000		.0860	.4480	-.0390	-.1370	-.2130	-.0420						-.0570	.0560	.2020
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X/LS .9670

PHI

.000 .2960

45.000 .2800

90.000 .1890

135.000 .3480

180.000 .2490

225.000 -.0190

270.000 .0660

315.000 .4400

MACH (2) = 2.000

BETAT (6) = 8.010

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4400	.0750	.1240	-.1340	-.0990	-.1430	-.0930	.0130	-.0230	-.0050	.0200	.0010	.0580	.2190	.2550
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45.000		.0660	.0770	-.1860	-.1630	-.0740							.2140	.3690	.2800
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90.000		.0750	.0820	-.1870	-.1730	-.1060	-.0190	-.0390	-.0360	-.1100	.0060	.0020	.1110	.2210	.1530
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135.000		.1110	.1260	-.1680	-.1410	-.1170							.0770	.1350	.0730
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180.000	1.4400	.1790	.2420	-.0810	-.0490	-.0750	-.0420	-.0480	-.1040	-.0620	.0140	-.0640	-.0160	.1420	.3620
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225.000		.1650	.5750	.0440	-.0200	-.0230	.0920						.0110	.0560	-.0220
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(RBDS07)

BETAT (6) = 8.010

DEPENDENT VARIABLE CP

[illegible]

FBI	
.000	.4570
45.000	.2260
90.000	.0960
135.000	.2340
180.000	.1990
225.000	-.0980
270.000	.1210
315.000	.3960

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1669

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS08) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5390	.1590	.3010	-.2210	-.1690	-.1980	-.2370	-.0680	-.0470	-.0590	-.0110	-.1020	.0430	.0860	.0440
45.000		.2510	.2930	-.2070	-.1490	-.0420							.0440	.2120	.2050
90.000		.3560	.4040	-.1680	-.0980	-.0330	-.0160	.0070	-.0980	-.0780	.0120	-.0780	.0740	.3010	.2620
135.000		.3990	.4840	-.1360	-.0680	-.0140							-.0170	.2410	.5620
180.000	1.5390	.3390	.5180	-.1390	-.0730	-.1050	.1890	.2240	.0270	.0550	.2190	-.0520	-.2080	.0440	.6440
225.000		.2510	.6150	-.1310	-.1840	-.2350	.2250						-.0440	.0540	.4420
270.000		.1800	.8090	.0360	-.3810	-.3900	-.1630	-.1450			-.0610	-.1890	.0340	-.0010	.0820
315.000		.1360	.3240	-.2690	-.3730	-.2440	-.0700						.0610	-.0200	.0530

X/LS .9670

PHI

.000 .0150
 45.000 .2080
 90.000 .4100
 135.000 .5470
 180.000 .5040
 225.000 .1980
 270.000 .1920
 315.000 .1050

MACH (1) = 1.555

BETAT (2) = -6.150

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5220	.1310	.2820	-.2260	-.1800	-.2080	-.2170	-.0470	-.0410	-.0640	-.0340	-.1230	.0320	.0870	.0580
45.000		.2210	.2430	-.2210	-.1660	-.0590							.0550	.2120	.1960
90.000		.3160	.3510	-.1900	-.1230	-.0610	-.0020	-.0410	-.1410	-.0780	-.0040	-.0850	.0690	.2800	.2410
135.000		.3620	.4430	-.1480	-.0870	-.0350							-.0210	.2280	.5590
180.000	1.5220	.3160	.5080	-.1420	-.0810	-.1030	.1550	.1980	.0030	.0200	.1800	-.0540	-.1440	.1080	.6380
225.000		.2260	.6200	-.1280	-.1860	-.1930	.1900						-.0020	.1220	.4100
270.000		.1500	.8060	.0350	-.3820	-.4300	-.1820	.0000			.0000	-.1540	.0610	-.0340	.1070
315.000		.1040	.3100	-.2740	-.3830	-.2630	-.1010						.1030	.0270	.0860

X/LS .9670

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(R00608)

MACH (1) = 1.555

BETAT (2) = -6.150

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.0430
45.000	.1900
90.000	.3810
135.000	.5100
180.000	.4450
225.000	.1030
270.000	.1970
315.000	.1370

MACH (1) = 1.555

BETAT (3) = -3.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4870	.0930	.2580	-.2350	-.1970	-.2160	-.1660	-.0240	-.0340	-.0710	-.0390	-.1330	.0290	.0740	.0850
45.000		.1680	.1870	-.2440	-.1810	-.0730							.0990	.2380	.2020
90.000		.2480	.2770	-.2170	-.1580	-.0920	-.0480	-.0800	-.1780	-.0810	-.0440	-.0900	.0920	.2720	.2260
135.000		.3010	.3780	-.1710	-.1110	-.0660							-.0570	.1820	.5350
180.000	1.4870	.2850	.4900	-.1490	-.0900	.0390	.0440	.1490	-.0670	-.0320	.1450	-.1050	-.0450	.1080	.6060
225.000		.2070	.6200	-.1240	-.1770	.0440	.1420						.0030	.1500	.3580
270.000		.1200	.7950	.0320	-.3760	-.3780	-.2340	.0030			.0560	-.1580	.0430	-.0480	.0950
315.000		.0670	.2960	-.2790	-.3860	-.3820	-.1490						.1580	.0750	.0630

X/LS .9670

PHI

.000	.0850
45.000	.1920
90.000	.3580
135.000	.4590
180.000	.3870
225.000	.0330
270.000	.1870
315.000	.1240

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1671

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBC698)

MACH (1) = 1.555

BETAT (4) = 5.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3770	.0080	.2070	-.2610	-.2290	-.2360	.0110	.0030	-.0350	.0130	.0560	-.1130	.1100	.3070	.3140
45.000		.0480	.1260	-.2790	-.2110	-.0960							.2520	.2370	.2080
90.000		.0810	.1380	-.2840	-.2240	-.0920	-.1240	-.0470	-.0900	-.0360	.0200	-.0240	.1250	.2190	.2970
135.000		.1440	.2650	-.2290	-.1910	-.0920							.0970	.2640	.4310
180.000	1.3770	.2020	.4520	-.1620	-.1130	.0580	-.0520	-.0010	-.1350	-.1010	-.0100	-.1640	.0590	.2920	.4260
225.000		.1640	.6340	-.1070	-.1220	.1010	-.0110						.0780	.2230	.0840
270.000		.0740	.7800	.0270	-.3570	-.2300	-.2390	-.0780			.0440	-.1560	.0230	.0440	.1300
315.000		.0030	.2940	-.2700	-.3710	-.2800	-.1000						.0820	.2420	.3050

X/LS .9670

PHI

.000	.3870
45.000	.2070
90.000	.2790
135.000	.3650
180.000	.2660
225.000	-.0270
270.000	.1700
315.000	.3870

MACH (1) = 1.555

BETAT (5) = 7.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3540	-.0050	.2110	-.2600	-.2320	-.2370	.0180	.0220	.0280	.0190	.0340	-.1140	.1150	.3010	.3200
45.000		.0240	.1160	-.2820	-.2180	-.0950							.1980	.3440	.2190
90.000		.0520	.1160	-.2930	-.2330	-.0900	-.1350	.0640	-.0520	-.0690	.0020	-.0400	.1450	.1810	.2360
135.000		.1200	.2350	-.2440	-.2060	-.1150							.0870	.2220	.3420
180.000	1.3540	.2000	.4490	-.1620	-.0300	.0360	-.1010	-.0240	-.0640	-.0460	-.0470	-.2320	.0650	.2650	.3900
225.000		.1620	.6380	-.0890	-.0890	.1210	-.0540						.0310	.1200	-.0210
270.000		.0730	.7780	.0260	-.3520	-.2040	-.1400	-.0710			.0250	-.1800	-.0400	-.0450	.0500
315.000		-.0050	.3000	-.2630	-.3600	-.2210	-.0780						.0610	.2000	.3230

X/LS .9670

PHI

.000	.4080
45.000	.2060
90.000	.2210
135.000	.2970
180.000	.1950

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0608)

MACH (1) = 1.555

BETAT (5) = 7.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.1590

270.000 .0820

315.000 .3740

MACH (1) = 1.555

BETAT (6) = 9.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3310	-.0130	.2060	-.2040	-.2390	-.2340	.0690	.0330	.0190	-.0220	.0170	-.1270	.0540	.3080	.4710
45.000		.0100	.1000	-.2860	-.2190	-.0050							.1490	.4170	.2530
90.000		.0250	.0900	-.3030	-.2400	.0340	-.0940	.0240	-.0800	-.0870	.0040	-.0820	.1180	.1530	.1940
135.000		.0900	.1920	-.2610	-.2290	-.0380							.0390	.1620	.2560
180.000	1.3310	.1860	.4340	-.1710	-.0120	.0160	-.0380	.0480	-.1120	-.0990	-.1040	-.2260	.0310	.3280	.3150
225.000		.2050	.6320	-.1030	-.0350	.1450	-.0870						-.0100	.0680	-.1460
270.000		.1330	.7720	.0230	-.3460	-.1950	-.0350	-.0180			-.0160	-.1890	-.0620	-.0780	-.0010
315.000		.0310	.3150	-.2580	-.3480	-.1820	-.0100						.0120	.1870	.3080

X/LS .9670

PHI

.000 .4650

45.000 .3250

90.000 .2030

135.000 .2420

180.000 .1620

225.000 -.1200

270.000 .0510

315.000 .3370

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7690	.2210	.2090	-.0820	-.0230	-.0630	-.1570	-.0550	-.0610	-.0370	-.0440	-.0720	.0490	.0940	.0430
45.000		.3090	.2930	-.0950	-.0780	.0190							.0640	.1900	.1750
90.000		.3980	.4150	-.0320	-.0110	.0100	.0260	.0430	.0250	-.0420	-.0450	-.0640	.0020	.2350	.2690
135.000		.4430	.4430	-.0270	.0190	.0790							.0180	.3120	.2070
180.000	1.7690	.4000	.4010	.0200	.0730	.0220	.1320	.2320	.1150	.1140	.3160	.0860	-.0690	.2350	.0530
225.000		.2790	.7570	.0750	-.0100	-.1070	.1450						-.1810	-.0590	-.1290

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1673

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(RBO508)

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1930	1.0290	.2790	-.1560	-.2550	-.0390	-.0620			.0670	-.2290	-.1100	-.0340	.1050
315.000		.1590	.4670	-.0690	-.1910	-.2230	-.0230						.0300	.0030	.0440

X/LS .9670

PHI

.000	.0190
45.000	.1610
90.000	.2690
135.000	.1350
180.000	.4800
225.000	.0740
270.000	.1550
315.000	.0490

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7310	.2010	.1870	-.0920	-.0360	-.0800	-.1590	-.0690	-.0490	-.0330	-.0460	-.0810	.0220	.0680	.0320
45.000		.2810	.2550	-.1130	-.1020	.0030							.0530	.1760	.1630
90.000		.3590	.3620	-.0640	-.0440	-.0250	.0020	.0260	-.0070	-.0630	-.0820	-.0930	.0280	.2590	.2480
135.000		.4080	.4000	-.0480	-.0080	.0510							-.0140	.2680	.1730
180.000	1.7310	.3840	.3950	.0140	.0590	-.0030	.1740	.1970	.0880	.0850	.2600	.0550	-.0870	.1580	.0370
225.000		.2710	.7660	.0800	-.0120	-.1120	.1140						-.1660	-.0500	-.0880
270.000		.1760	1.0340	.2810	-.1610	-.2540	-.0850	-.0810			.0750	-.2190	-.0570	.0290	.1170
315.000		.1410	.4540	-.0740	-.1980	-.2340	-.0420						.0430	.0370	.0170

X/LS .9670

PHI

.000	.0370
45.000	.1570
90.000	.2300
135.000	.1120
180.000	.4380
225.000	.1650
270.000	.1980
315.000	.0480

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0508)

MACH (2) = 2.500

DETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7010	.1750	.1620	-.1050	-.0570	-.0950	-.1600	-.0800	-.0250	-.0310	-.0470	-.0880	.0100	.0540	.0440
45.000		.2370	.2210	-.1280	-.1170	-.0110							.0430	.1610	.1620
90.000		.3030	.3070	-.0870	-.0720	-.0490	-.0170	.0030	-.0280	-.0940	-.1120	-.0600	.0150	.2270	.2210
135.000		.3610	.3540	-.0720	-.0250	.0320							-.0530	.2070	.1360
180.000	1.7010	.3570	.3810	-.0110	.0440	-.0110	.1450	.1630	.0590	.0440	.1810	.0050	-.1100	.1140	.0170
225.000		.2600	.7710	.0780	-.0180	-.1210	.1150						-.1100	-.0150	-.0150
270.000		.1620	1.0360	.2820	-.1620	-.2590	-.0940	-.1000			.0730	-.1610	.0030	.0460	.0920
315.000		.1220	.4280	-.0830	-.2060	-.2480	-.0630						.0440	.0480	-.0270

X/LS .9670

PHI

.000	.0370
45.000	.1540
90.000	.1940
135.000	.1410
180.000	.4110
225.000	.2130
270.000	.1610
315.000	.0360

MACH (2) = 2.000

DETAT (4) = 3.920

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5180	.0820	.1120	-.1400	-.0960	-.1390	-.1280	.0160	.0130	-.0160	-.0200	-.0410	-.0160	.1860	.1720
45.000		.1120	.1060	-.1780	-.1610	-.0570							-.0080	.2320	.1680
90.000		.1440	.1490	-.1610	-.1450	-.1090	-.0330	-.0800	-.0890	-.0820	-.0510	-.0680	.0500	.1200	.1170
135.000		.2080	.2160	-.1310	-.1010	-.0650							-.0100	.0750	.0230
180.000	1.5180	.2730	.3230	-.0390	.0060	-.0440	.0050	.0420	-.0530	-.0740	.0610	-.1460	-.1230	-.0070	.2910
225.000		.2170	.6960	.0740	.0040	-.0650	.0750						-.0580	.0600	.0830
270.000		.1020	.9490	.2740	-.1490	-.2400	-.1110	-.1300			.0260	-.1510	-.0210	-.0320	.0430
315.000		.0610	.3780	-.0800	-.1960	-.2480	-.1620						-.0410	.0650	.0330

X/LS .9670

PHI

.000	.1560
45.000	.1470
90.000	.0920
135.000	.2570
180.000	.2950

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO008)

MACH (2) = 2.000

BETAT (4) = 3.925

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0790

270.000 .1720

315.000 .1610

MACH (2) = 2.000

BETAT (5) = 5.960

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4740	.0590	.0920	-.1430	-.1060	-.1490	-.1000	.0190	.0020	-.0170	-.0190	-.0360	-.0080	.1910	.1920
45.000		.0740	.0790	-.1870	-.1630	-.0690							.0540	.3770	.3080
90.000		.1000	.1160	-.1750	-.1640	-.1210	-.0480	-.0940	-.0590	-.1070	-.0520	-.0660	.0530	.1350	.1740
135.000		.1640	.1830	-.1440	-.1180	-.0940							-.0180	.0330	.2130
180.000	1.4740	.2460	.3180	-.0340	-.0030	-.0450	-.0240	.0020	-.0780	-.0830	.0150	-.1730	-.0600	.0150	.3220
225.000		.2080	.6870	.0680	.0110	.0290	.0560						-.0320	.0390	.1180
270.000		.0960	.9320	.2710	-.1400	-.2310	-.1190	-.1350			.0170	-.1720	-.0500	-.0760	.0700
315.000		.0510	.3800	-.0770	-.1900	-.2460	-.1700						-.1010	.0010	.0810

X/LS .9670

PHI

.000	.1830
45.000	.2800
90.000	.2020
135.000	.2950
180.000	.2280
225.000	-.0090
270.000	.2010
315.000	.5310

MACH (2) = 2.000

BETAT (6) = 8.010

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4390	.0390	.0650	-.1470	-.1180	-.1570	-.0820	.0100	-.0100	-.0060	.0210	-.0030	.0140	.2260	.2050
45.000		.0500	.0570	-.1970	-.1780	-.0760							.1300	.3640	.2990
90.000		.0700	.0810	-.1900	-.1780	-.1310	-.0610	-.0930	-.0800	-.1530	-.0010	-.0530	.1120	.1660	.0730
135.000		.1340	.1520	-.1570	-.1270	-.1170							.0420	.0800	.2070
180.000	1.4390	.2350	.3300	-.0540	-.0120	.0840	-.0340	-.0320	-.0960	-.1020	-.0180	-.1030	-.0160	.1620	.3540
225.000		.2050	.5800	.0660	.0240	.1640	.0940						-.0240	.0320	-.0280

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(R00508)

MACH (2) = 2.000

DETAT (6) = 8.010

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4635	.5973	.7110	.8248	.9317	.9944	.9386
PHI															
270.000		.0880	.9130	.2610	-.1290	-.2110	-.1260	-.0940			.0050	-.1650	-.0530	-.0630	.0750
315.000		.0420	.3810	-.0700	-.1770	-.2360	-.1500						-.1540	-.1030	.2690

X/LS .9670

PHI

.000	.2010
45.000	.2180
90.000	.0420
135.000	.2270
180.000	.1880
225.000	-.0970
270.000	.0490
315.000	.5500

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1677

AMES 97-707 1A9 OCA + S3 + T9 SRM BOOSTER

(RBOS09) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 DREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUCLR = .000

MACH (1) = 1.555

BETAT (1) = -8.160

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5280	.1250	.2580	-.2370	-.1890	-.2200	-.2930	-.1550	-.2190	-.2730	-.0430	-.1270	.0510	.0420	.0130
45.000		.2110	.2440	-.2250	-.1740	-.0800							.0360	.1240	.0940
90.000		.3410	.4050	-.1740	-.1080	-.0540	-.0170	-.0180	-.1570	-.1670	-.0860	-.1680	-.0690	.2100	.3220
135.000		.4320	.5270	-.1250	-.0510	.0030							-.0980	.1990	.6150
180.000	1.5280	.3980	.5760	-.1190	-.0420	-.0730	.2100	.2130	.0180	.0690	.1850	-.0790	-.2360	.0330	.6630
225.000		.2900	.6780	-.1030	-.1420	.0210	.2330						-.0650	.0480	.4320
270.000		.1640	.7840	.0230	-.3790	-.4020	-.1570	-.0880			-.0710	-.1960	.0190	-.0250	.0340
315.000		.1110	.2350	-.3150	-.4270	-.3420	-.2540						.0540	.0070	.0010

X/LS .9670

PHI

.000 -.0190
 45.000 .1510
 90.000 .3830
 135.000 .5410
 180.000 .4810
 225.000 .1750
 270.000 .1600
 315.000 .0860

MACH (1) = 1.555

BETAT (2) = -6.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5090	.0950	.2340	-.2460	-.2040	-.2320	-.2780	-.1310	-.2120	-.2810	-.0760	-.1530	.0450	.0480	.0170
45.000		.1810	.2000	-.2440	-.1890	-.0970							.0290	.1200	.0900
90.000		.3050	.3520	-.1930	-.1350	-.0840	-.0390	-.0750	-.1980	-.2160	-.0960	-.1850	-.0450	.1920	.3240
135.000		.3960	.4870	-.1370	-.0680	-.0260							-.1190	.1660	.5870
180.000	1.5090	.3750	.5650	-.1230	-.0520	.0790	.1790	.1800	-.0040	.0190	.1430	-.0890	-.1910	.0880	.6310
225.000		.2720	.6820	-.0990	-.1440	.1120	.1910						-.0300	.1120	.3870
270.000		.1420	.7760	.0180	-.3820	-.3230	-.1800	-.0610			-.0110	-.1700	.0410	-.0700	.0660
315.000		.0710	.2150	-.3260	-.4400	-.3370	-.2900						.0830	.1130	.0590

X/LS .9670

AMES 97-707 1A9-02A + S3 + T9 SRM BOOSTER

(RBO809)

MACH (1) = 1.555

BETAT (2) = -6.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.0160
45.000	.1460
90.000	.3550
135.000	.4960
180.000	.4250
225.000	.0790
270.000	.1730
315.000	.1900

MACH (1) = 1.555

BETAT (3) = -4.180

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4810	.0770	.2130	-.2540	-.2160	-.2390	-.2540	-.1070	-.1270	-.1910	-.1490	-.1580	.0380	.0530	.0190
45.000		.1500	.1640	-.2590	-.2040	-.0980							.0290	.1140	.0940
90.000		.2570	.3010	-.2150	-.1630	-.1010	-.0850	-.1000	-.2310	-.2020	-.1260	-.1970	.0050	.1940	.3270
135.000		.3530	.4550	-.1600	-.0930	-.0210							-.1360	.1330	.5570
180.000	1.4810	.3560	.5540	-.1280	-.0580	.1110	.1490	.1470	-.0510	-.0170	.1110	-.1170	-.1350	.0680	.5980
225.000		.2520	.6860	-.0970	-.1380	.1140	.1620						-.0200	.1150	.3310
270.000		.1160	.7670	.0160	-.3780	-.2840	-.2010	-.0510			.0240	-.1770	.0380	-.0990	.0480
315.000		.0440	.1990	-.3310	-.4450	-.3570	-.2900						.0550	.1230	.1190

X/LS .9670

PHI

.000	.0350
45.000	.1540
90.000	.3290
135.000	.4600
180.000	.3860
225.000	.0200
270.000	.1600
315.000	.2210

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBO509)

MACH (1) = 1.555

BETAT (4) = 3.640

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3910	-.0160	.1610	-.2880	-.2490	-.2510	-.0600	-.0010	-.0490	-.0440	.0530	-.1160	.0190	.2960	.2150
45.000		.0380	.0990	-.2910	-.2230	-.1150							.1020	.1360	.1780
90.000		.0880	.1500	-.2850	-.2430	-.1350	-.1650	-.1990	-.1410	-.1380	.0020	-.0440	.0920	.1890	.2820
135.000		.1940	.3120	-.2210	-.1790	-.0870							.1100	.3130	.4530
180.000	1.3910	.2750	.5110	-.1470	-.0810	.0860	-.0030	.0080	-.1420	-.1260	-.0720	-.1590	.0640	.3640	.4200
225.000		.2160	.6770	-.0920	-.0780	.1300	.0350						.0290	.1010	-.0570
270.000		.0630	.7290	.0040	-.3480	-.2040	-.1780	-.1430			.0170	-.1710	-.0350	-.0600	.0520
315.000		-.0240	.1900	-.3310	-.4360	-.3490	-.1530						.0450	.1580	.2150

X/LS .9670

PHI

.000	.2780
45.000	.1970
90.000	.3060
135.000	.3960
180.000	.2550
225.000	-.0540
270.000	.1700
315.000	.4030

MACH (1) = 1.555

BETAT (5) = 5.690

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3530	-.0280	.1580	-.2780	-.2500	-.2470	-.0080	.0040	-.0420	.0140	.0370	-.1320	.0510	.3050	.2690
45.000		.0120	.0950	-.2940	-.2220	-.1010							.2300	.1310	.1050
90.000		.0570	.1100	-.2960	-.2460	-.1300	-.1880	-.1320	-.1430	-.0780	-.0350	-.0740	.0730	.1650	.2350
135.000		.1580	.2610	-.2330	-.1940	-.0970							.0580	.1730	.3580
180.000	1.3530	.2540	.4950	-.1490	.0170	.0630	-.0390	-.0170	-.1580	-.1400	-.0540	-.2120	.0220	.1870	.4230
225.000		.2100	.6730	-.0850	-.0020	.1830	-.0030						.0520	.1580	.0270
270.000		.0630	.7320	.0070	-.3480	-.1830	-.1520	-.1420			.0240	-.1890	-.0060	.0050	.0890
315.000		-.0370	.2000	-.3200	-.4240	-.3100	-.0960						.0470	.1990	.2830

X/LS .9670

PHI

.000	.3660
45.000	.1380
90.000	.2150
135.000	.3640
180.000	.2490

AMES 97-797 1A9 C2A + S3 + T9 SRM BOOSTER

(RB0609)

MACH (1) = 1.555

BETAT (5) = 5.690

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0500

270.000 .1270

315.000 .3810

MACH (1) = 1.555

BETAT (6) = 7.740

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3230	-.0430	.1550	-.2820	-.2570	-.2500	-.0160	.0350	.0260	-.0050	.0110	-.1310	.0690	.3000	.3310
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45.000		-.0050	.0740	-.3050	-.2270	-.1020							.1060	.2580	.1290
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90.000		.0230	.0850	-.3050	-.2590	-.1430	-.2040	-.0310	-.1080	-.0820	-.0300	-.1030	.0810	.0910	.1840
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135.000		.1360	.2350	-.2470	-.1990	-.1410							.0180	.1350	.3280
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180.000	1.3230	.2440	.4860	-.1480	.0110	.0420	-.0820	-.0190	-.1210	-.0930	-.1190	-.2360	.0490	.2860	.3540
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225.000		.2740	.6600	-.0870	.0350	.1780	-.0490						.0130	.1310	-.1230
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270.000		.0830	.7240	.0000	-.3370	-.1870	-.1420	-.1100			-.0160	-.1930	-.0760	-.0890	-.0110
---------	--	-------	-------	-------	--------	--------	--------	--------	--	--	--------	--------	--------	--------	--------

315.000		-.0230	.2110	-.3140	-.4060	-.2530	-.0660						.0100	.1770	.2680
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X/LS .9670

PHI

.000 .4380

45.000 .1350

90.000 .1920

135.000 .2820

180.000 .1920

225.000 -.1970

270.000 .0560

315.000 .3460

MACH (2) = 2.000

BETAT (1) = -8.340

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7520	.1860	.1910	-.0930	-.0400	-.0810	-.1780	-.1170	-.1130	-.1370	-.1510	-.1110	-.0400	.0130	-.0340
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45.000		.2740	.2500	-.1120	-.0960	-.0170							-.0160	.0560	.0710
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90.000		.3870	.4080	-.0400	-.0180	.0010	-.0170	.0360	-.0250	-.0840	-.0730	-.1110	-.0660	.1610	.1690
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135.000		.4690	.4770	-.0100	.0400	.0920							-.0120	.2780	.1810
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180.000	1.7520	.4520	.4790	.0530	.0990	.0460	.2080	.2340	.1050	.1900	.2820	.0690	-.0840	.2010	.0380
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225.000		.3170	.8490	.1060	.0270	-.0730	.2100						-.1910	-.0680	-.1330
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DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1681

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RB0509)

MACH (2) = 2.000

BETAT (1) = -8.340

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1860	1.0430	.2740	-.1560	-.2390	-.0460	-.0620			.0880	-.2320	-.1210	-.0480	.0590
315.000		.1320	.3920	-.1130	-.2390	-.2880	-.0540						-.0090	-.0180	.0200

PHI

X/LS .9670

PHI

.000 -0.0660

45.000 .0780

90.000 .1940

135.000 .4530

180.000 .5030

225.000 .0450

270.000 .1660

315.000 -.0120

MACH (2) = 2.000

BETAT (2) = -6.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7130	.1650	.1640	-.1010	-.0530	-.0970	-.1780	-.1630	-.1160	-.1530	-.1280	-.0950	.0050	.0240	-.0320
45.000		.2470	.2150	-.1290	-.1210	-.0250							-.0030	.0590	.0810
90.000		.3490	.3540	-.0700	-.0480	-.0360	-.0360	-.0070	-.0580	-.1060	-.1100	-.1370	-.1000	.1090	.1240
135.000		.4410	.4360	-.0310	.0160	.0550							-.0410	.2260	.1400
180.000	1.7130	.4370	.4760	.0420	.0900	.0220	.1860	.2020	.0730	.0670	.2010	.0090	-.1000	.1450	.0300
225.000		.3060	.8590	.1110	.0270	-.0730	.1790						-.1680	-.0620	-.0880
270.000		.1690	1.0420	.2750	-.1570	-.2360	-.0620	-.0790			.0870	-.2190	-.0810	.0060	.0660
315.000		.1120	.3750	-.1180	-.2450	-.3040	-.1050						.0250	.0600	.0560

PHI

X/LS .9670

PHI

.000 -.0500

45.000 .0770

90.000 .1660

135.000 .3850

180.000 .4640

225.000 .1460

270.000 .1540

315.000 .0050

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RB0509)

MACH (2) = 2.000

BETAT (3) = -4.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6790	.1360	.1350	-.1170	-.0730	-.1120	-.1810	-.1680	-.1250	-.1720	-.1510	-.0870	-.0030	-.0030	-.0260
45.000		.2040	.1800	-.1460	-.1350	-.0370							-.0030	.0500	.0660
90.000		.2910	.3010	-.0910	-.0750	-.0510	-.0620	-.0360	-.0850	-.1310	-.1460	-.1650	-.1340	.0670	.1590
135.000		.3900	.3850	-.0540	-.0000	.0380							-.0810	.1620	.0820
180.000	1.6790	.4120	.4560	.0230	.0720	.0150	.1400	.1620	.0430	.0310	.1290	-.0220	-.1230	.0930	-.0140
225.000		.2940	.8610	.1130	.0220	-.0830	.1640						-.1210	-.0260	-.0220
270.000		.1550	1.0360	.2720	-.1590	-.2380	-.0690	-.0970			.0620	-.1670	-.0300	.0320	.0780
315.000		.0910	.3460	-.1290	-.2530	-.3150	-.1390						.0290	.1660	.0390

X/LS .9670

PHI

.000	.0020
45.000	.0710
90.000	.1420
135.000	.3420
180.000	.4230
225.000	.1990
270.000	.1320
315.000	.0300

MACH (2) = 2.000

BETAT (4) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4920	.0370	.0720	-.1370	-.1270	-.1560	-.1320	-.0320	.0090	-.0230	-.0290	-.0460	-.0810	.1970	.1810
45.000		.0730	.0710	-.1940	-.1840	-.0760							-.0880	.1250	-.0540
90.000		.1160	.1310	-.1700	-.1560	-.1260	-.1020	-.1270	-.1930	-.1280	-.0820	-.1160	-.0030	.0510	.0330
135.000		.2160	.2340	-.1250	-.0940	-.0690							-.0610	.0610	.1570
180.000	1.4920	.3120	.3880	-.0010	.0280	-.0140	.0090	.0510	-.0470	-.0670	.0350	-.1800	-.1580	-.0430	.2790
225.000		.2450	.7880	.0910	.0390	.1000	.0800						-.0900	.0620	.0830
270.000		.0850	.9340	.2480	-.1510	-.2150	-.1090	-.0830			.0200	-.1670	-.0380	-.0320	.0240
315.000		.0140	.2820	-.1350	-.2480	-.3180	-.2600						-.0870	.0240	.0210

X/LS .9670

PHI

.000	.1310
45.000	-.0200
90.000	.0890
135.000	.2430
180.000	.2770

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1683

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBO009)

MACH (2) = 2.000

BETAT (4) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0840

270.000 .1490

315.000 .0870

MACH (2) = 2.000

BETAT (5) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.4000 -.0050 .0310 -.1760 -.1380 -.1720 -.0760 -.0060 -.0100 -.0110 .0140 -.0180 -.0390 .2280 .1840

45.000 .0160 .0250 -.2100 -.1940 -.0820 .0130 .3190 .2600

90.000 .0470 .0630 -.1980 -.1840 -.1660 -.1330 -.1520 -.1860 -.1790 -.0020 -.0660 .0520 .1070 .0130

135.000 .1470 .1670 -.1420 -.1300 -.1140 .0160 .0100 -.0780 -.0980 -.0460 -.1560 -.0380 .0360 .1980

180.000 1.4000 .2780 .4350 -.0500 .0080 .1780 .0160 -.0100 -.0780 -.0980 -.0460 -.1560 -.0380 .1240 .4240

225.000 .2350 .3740 .0810 .0500 .1950 .0790 -.0700 .0050 -.0440

270.000 .0700 .8750 .2260 -.1370 -.1270 -.1390 -.0730 .0100 -.1780 -.0710 -.0850 .0580

315.000 -.0050 .2550 -.1240 -.2320 -.2940 -.2210 -.1600 -.0680 -.0120

X/LS .9670

PHI

.000 .1750

45.000 .1740

90.000 .1040

135.000 .1790

180.000 .1700

225.000 -.1050

270.000 .2230

315.000 .5480

AMES 97-707 1A9 02A + 53 + T9 SRM BOOSTER

(RBO510) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5050	.0910	.2130	-.2510	-.2090	-.2460	-.3190	-.2430	-.3660	-.1650	-.0940	-.1600	.0480	.0600	-.0490
45.000		.1680	.2040	-.2460	-.2040	-.1260							-.0070	.0460	.0510
90.000		.3260	.3910	-.1840	-.1210	-.0800	-.0650	-.0800	-.2080	-.2160	-.2170	-.2620	-.0320	.1890	.3640
135.000		.4650	.5610	-.1160	-.0370	.0150							-.1660	.1380	.6370
180.000	1.5050	.4620	.6320	-.1020	-.0120	.1460	.2200	.2020	.0130	.0570	.1650	-.0970	-.2720	.0120	.6490
225.000		.3280	.7310	-.0790	-.0980	.1690	.2280						-.0920	.0540	.4050
270.000		.1420	.7360	.0040	-.3670	-.2600	-.1610	-.1720			-.1220	-.2250	-.0040	.0010	.0110
315.000		.0830	.1390	-.3630	-.4850	-.4550	-.3000						-.0290	-.0420	.0230

X/LS .9670

PHI

.000 -0.0390
 45.000 .0730
 90.000 .3390
 135.000 .5410
 180.000 .4700
 225.000 .1270
 270.000 .1570
 315.000 .0150

MACH (1) = 1.555

BETAT (2) = -6.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4820	.0670	.1910	-.2580	-.2230	-.2570	-.3130	-.2210	-.3470	-.2000	-.1100	-.1550	.0390	.0560	-.0350
45.000		.1370	.1560	-.2610	-.2160	-.1400							-.0190	.0390	.0480
90.000		.2860	.3400	-.2040	-.1500	-.1170	-.1010	-.1280	-.2510	-.2650	-.1730	-.2370	-.0500	.1550	.3390
135.000		.4320	.5220	-.1340	-.0560	.0440							-.1750	.1250	.5840
180.000	1.4820	.4440	.6210	-.1050	-.0190	.1670	.1830	.1630	.0020	.0080	.1190	-.1260	-.2600	.0370	.5940
225.000		.3110	.7390	-.0720	-.0980	.1650	.1920						-.0760	.1060	.3540
270.000		.1190	.7300	.0010	-.3660	-.2290	-.1840	-.1040			-.1120	-.2110	.0210	-.0490	.0120
315.000		.0390	.1110	-.3750	-.4970	-.4690	-.2330						-.0050	-.0140	.0900

X/LS .9670

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0510)

MACH (1) = 1.555

BETAT (2) = -6.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	-.0250
45.000	.0580
90.000	.3080
135.000	.4930
180.000	.4160
225.000	.0530
270.000	.1350
315.000	.1220

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4600	.0440	.1660	-.2670	-.2360	-.2590	-.3240	-.2630	-.3020	-.2540	-.1600	-.1600	.0000	.0400	-.0690
45.000		.1100	.1160	-.2750	-.2280	-.1380							-.0180	.0270	.0350
90.000		.2330	.2890	-.2250	-.1780	-.1250	-.1470	-.1690	-.2850	-.2890	-.1810	-.2400	-.0130	.1480	.3130
135.000		.3860	.4950	-.1490	-.0800	.0390							-.2020	.0910	.5340
180.000	1.4600	.4200	.6130	-.1080	-.0200	.1690	.1500	.1280	-.0250	-.0190	.0940	-.1660	-.2250	.0700	.5540
225.000		.2980	.7430	-.0690	-.0840	.1630	.1640						-.0370	.1320	.3030
270.000		.1010	.7220	-.0020	-.3630	-.2050	-.1960	-.1080				-.0550	-.2060	.0160	-.1120
315.000		.0060	.0970	-.3830	-.5020	-.4210	-.2030						.0290	.0320	.1150

X/LS .9670

PHI

.000	-.0010
45.000	.0610
90.000	.2810
135.000	.4470
180.000	.3850
225.000	.0170
270.000	.1030
315.000	.1870

AMES 97-707 IA9 CCA + S3 + T9 SRM BOOSTER

(RB0610)

MACH (1) = 1.555

BETAT (4) = 3.650

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3600	-.0560	.1030	-.2990	-.2640	-.2690	-.1240	-.0070	-.0600	-.0500	.0500	-.1150	-.1470	.2700	.2070
45.000		.0010	.0590	-.3150	-.2480	-.1370							.0680	.0560	.1260
90.000		.0620	.1250	-.2980	-.2650	-.2050	-.2500	-.2770	-.2270	-.1880	-.0490	-.1040	.0550	.1070	.2150
135.000		.2190	.3240	-.2170	-.1790	-.0870							.0820	.2070	.4570
180.000	1.3600	.3350	.5590	-.1290	.0450	.1000	.0180	.0170	-.1590	-.1280	-.1140	-.2450	.0650	.2800	.4230
225.000		.2600	.7070	-.0690	.0430	.2030	.0580						.0410	.0610	-.0430
270.000		.0620	.6800	-.0140	-.3290	-.1790	-.1690	-.2060			.0140	-.1900	-.0520	-.1000	.0090
315.000		-.0750	.0840	-.3820	-.4910	-.4660	-.1050						.0090	.1410	.2590

X/LS .9670

PHI

.000	.2620
45.000	.1290
90.000	.2610
135.000	.4060
180.000	.2780
225.000	-.0580
270.000	.1030
315.000	.3960

MACH (1) = 1.555

BETAT (5) = 5.710

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3320	-.0710	.1060	-.3110	-.2690	-.2620	-.0560	-.0150	-.0480	.0090	.0300	-.1450	-.0290	.3060	.2020
45.000		-.0190	.0570	-.3170	-.2450	-.1220							.1720	.0620	.0600
90.000		.0280	.0800	-.3090	-.2740	-.2080	-.2650	-.2660	-.2630	-.1470	-.0910	-.1170	.0410	.1120	.1900
135.000		.1800	.2710	-.2310	-.1740	-.1150							.0440	.1560	.4240
180.000	1.3320	.3190	.5370	-.1310	.0470	.0820	-.0110	.0030	-.1730	-.1480	-.0830	-.1870	.0040	.2330	.4330
225.000		.2590	.7030	-.0660	.0690	.2030	.0320						-.0040	.1090	-.0010
270.000		.0720	.6780	-.0150	-.3210	-.1720	-.1130	-.2270			.0020	-.1990	-.0560	-.0560	.0420
315.000		-.0880	.0920	-.3750	-.4800	-.4690	-.0640						.0010	.1230	.2830

X/LS .9670

PHI

.000	.3350
45.000	.0440
90.000	.1770
135.000	.3640
180.000	.2610

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1687

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS10)

MACH (1) = 1.555

BETAT (5) = 5.710

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0910

270.000 .0890

315.000 .3930

MACH (1) = 1.555

BETAT (6) = 7.770

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.2970	-.0750	.1120	-.3030	-.2740	-.2580	-.0320	.0280	.0160	-.0220	.0140	-.1390	-.0020	.2950	.3020
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45.000		-.0360	.0460	-.3190	-.2420	-.1190							.0990	.2410	-.0540
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90.000		.0020	.0620	-.3150	-.2830	-.2290	-.2790	-.1300	-.1780	-.1120	-.0620	-.1330	.0420	.0690	.1580
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135.000		.1560	.2580	-.2430	-.1890	-.1600							-.0060	.0990	.3530
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180.000	1.2970	.3160	.5530	-.1290	.0920	.0570	-.0360	-.0150	-.1560	-.1080	-.1400	-.2820	.0390	.3240	.3350
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225.000		.3390	.7010	-.0670	.1460	.1680	-.0110						.0030	.1460	-.1470
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270.000		.1370	.6470	-.0260	-.3070	-.1940	-.1020	-.2040			-.0260	-.2100	-.0870	-.0950	-.0060
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315.000		-.0550	.1070	-.3670	-.4730	-.4840	-.0530						.0040	.1280	.2980
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X/LS .9670

PHI

.000 .3890

45.000 .1300

90.000 .1410

135.000 .2620

180.000 .1930

225.000 -.1530

270.000 .0800

315.000 .3430

MACH (2) = 2.000

BETAT (1) = -8.390

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7470	.1890	.2370	-.0910	-.0470	-.0860	-.1920	-.1740	-.1560	-.1920	-.1380	-.1200	-.0690	.0370	-.0410
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45.000		.2690	.2360	-.1210	-.1110	-.0430							-.0310	.0220	.0140
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90.000		.4090	.4260	-.0360	-.0140	.0150	-.0210	-.0070	-.0630	-.1130	-.1000	-.1500	-.1210	.0850	.1120
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135.000		.5420	.5500	.0240	.0780	.1090							-.0520	.2250	.1470
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180.000	1.7470	.5340	.6000	.1030	.1400	.0840	.2500	.2620	.1090	.1020	.2840	.0540	-.0980	.1850	.0750
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225.000		.3710	.9220	.1390	.0820	-.0110	.3060						-.2050	-.0770	-.1440
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AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS10)

MACH (2) = 2.000

BETAT (1) = -8.390

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000		.1960	1.0230	.2660	-.1380	-.2040	-.0110	-.0530			.0810	-.2570	-.1810	-.1460	-.0350
315.000		.1280	.3300	-.1480	-.2690	-.2980	-.1130						-.0960	-.0940	-.0500

X/LS .9670

PHI

.000	-.0760
45.000	-.0010
90.000	.1370
135.000	.5410
180.000	.5170
225.000	.0040
270.000	.1190
315.000	-.0500

MACH (2) = 2.000

BETAT (2) = -6.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7220	.1580	.1970	-.1070	-.0690	-.1050	-.1990	-.2080	-.1710	-.1890	-.1440	-.1370	-.0350	.0160	-.0270
45.000		.2240	.1960	-.1410	-.1320	-.0520							-.0350	.0020	.0110
90.000		.3520	.3620	-.0640	-.0440	-.0280	-.0590	-.0520	-.1050	-.1470	-.1360	-.1830	-.0930	.0500	.0670
135.000		.4900	.4910	.0010	.0480	.0760							-.0830	.1610	.0950
180.000	1.7220	.5140	.5780	.0970	.1200	.0580	.1930	.2110	.0710	.0630	.1630	-.0150	-.1210	.1150	.0640
225.000		.3700	.9230	.1370	.0700	-.0200	.2400						-.2000	-.0850	-.1480
270.000		.1900	1.0190	.2630	-.1460	-.2090	-.0310	-.0740			.0890	-.2510	-.1400	-.0590	.0010
315.000		.1080	.2990	-.1620	-.2820	-.3030	-.1740						-.0750	-.0610	-.0220

X/LS .9670

PHI

.000	-.0450
45.000	-.0090
90.000	.0870
135.000	.4840
180.000	.4720
225.000	.1220
270.000	.1250
315.000	-.0200

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS10)

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6830	.1120	.1570	-.1200	-.0860	-.1280	-.2020	-.2160	-.1910	-.1810	-.1450	-.1390	-.0350	.0200	-.0550
45.000		.1900	.1590	-.1590	-.1520	-.0590							-.0280	-.0120	.0100
90.000		.2950	.3030	-.0960	-.0780	-.0500	-.0700	-.0970	-.1330	-.1740	-.1750	-.2050	-.0700	.0120	.0480
135.000		.4340	.4340	-.0320	.0180	.0460							-.1160	.1050	.0480
180.000	1.6830	.4840	.5460	.0880	.1010	.0400	.1470	.1700	.0450	.0330	.0960	-.0480	-.1410	.0630	.0800
225.000		.3520	.9210	.1330	.0600	-.0280	.1970						-.1320	-.0400	-.0350
270.000		.1640	1.0120	.2570	-.1500	-.2130	-.0520	-.0910			.0700	-.1950	-.0630	.0260	.0500
315.000		.0760	.2720	-.1740	-.2900	-.3080	-.1780						-.0310	-.0090	.0560

X/LS .9670

PHI	
.000	-.0840
45.000	.0000
90.000	.0710
135.000	.4170
180.000	.4320
225.000	.1790
270.000	.1110
315.000	.0830

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5680	.0510	.0830	-.1470	-.1250	-.1490	-.1960	-.1870	-.1930	-.1400	-.1280	-.1120	-.1220	.2480	-.0010
45.000		.1070	.0890	-.1880	-.1790	-.0830							-.0040	.0150	-.0150
90.000		.1830	.1990	-.1430	-.1270	-.1050	-.1210	-.1700	-.2310	-.1660	-.1180	-.1920	-.0690	-.0010	.0210
135.000		.3280	.3320	-.0750	-.0380	-.0190							-.1910	-.0170	-.0500
180.000	1.5680	.4180	.4920	.0540	.0710	.0270	.0770	.0920	.0020	-.0270	.0270	-.1290	-.1890	-.0220	.2630
225.000		.3080	.8440	.1210	.0670	.0250	.1330						-.0920	.0150	.0630
270.000		.1150	.9510	.2410	-.1490	-.1990	-.0830	-.0930			.0140	-.1280	-.0250	-.0570	.0130
315.000		.0170	.2120	-.1890	-.2940	-.3150	-.2310						-.0280	.0740	.0780

X/LS .9670

PHI	
.000	-.1080
45.000	-.0210
90.000	.0340
135.000	.3430
180.000	.3670

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO61D)

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2580

270.000 .0930

315.000 .1380

MACH (2) = 2.000

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4620	.0060	.0520	-.1480	-.1560	-.1730	-.1540	-.0720	.0090	-.0260	-.0360	-.0780	-.1110	.1970	.2090
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45.000		.0510	.0370	-.2080	-.1960	-.1000							-.0590	.1130	-.0880
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90.000		.1020	.1110	-.1780	-.1670	-.1540	-.1890	-.2350	-.1960	-.1660	-.1280	-.1420	-.0570	-.0310	-.0320
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135.000		.2440	.2520	-.1100	-.0820	-.0730							-.0890	-.0420	.1150
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180.000	1.4620	.3730	.4510	.0140	.0460	.2120	.0130	.0570	-.0340	-.0560	.0280	-.1920	-.1940	-.0740	.2710
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225.000		.2900	.7880	.1060	.0790	.2500	.0780						-.1090	.0320	.1510
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270.000		.0850	.9120	.2290	-.1490	-.1540	-.1100	-.0220			-.0130	-.1710	-.0510	-.0330	.0340
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315.000		-.0150	.1950	-.1890	-.2930	-.3170	-.2510						-.0740	.0260	.0270
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X/LS .9670

PHI

.000 .1790

45.000 -.1360

90.000 .0540

135.000 .2260

180.000 .2750

225.000 .0770

270.000 .1450

315.000 .1050

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4030	-.0130	.0340	-.1610	-.1580	-.1770	-.1130	-.0370	-.0020	-.0300	-.0340	-.0710	-.0990	.2030	.1960
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45.000		.0210	.0160	-.2130	-.2020	-.1030							-.1230	.1410	.1870
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90.000		.0580	.0760	-.1940	-.1830	-.1750	-.2230	-.2400	-.2060	-.1840	-.0960	-.1360	-.0530	.0440	.0270
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135.000		.1980	.2180	-.1210	-.0980	-.0800							-.0690	.0090	.0690
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180.000	1.4030	.3510	.5270	-.0100	.0270	.2110	-.0090	.0460	-.0450	-.0630	-.0200	-.2110	-.0840	-.0230	.2000
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225.000		.2820	.5330	.0970	.0820	.2540	.0680						-.1060	.0180	.1720
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DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1691

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS10)

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000	.0750	.8760	.2190	-.1400	-.0870	-.1230	-.0260				-.0080	-.1830	-.0630	-.0630	.0600
315.000	-.0310	.1800	-.1830	-.2870	-.3120	-.2510							-.1040	-.0060	-.0060

X/LS .9670

PHI

.000	.2390
45.000	-.0080
90.000	.1740
135.000	.1340
180.000	.1990
225.000	-.0530
270.000	.1670
315.000	.4030

MACH (2) = 2.000

BETAT (7) = 8.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3540	-.0330	.0130	-.1910	-.1610	-.1820	-.0880	-.0150	-.0200	-.0260	.0040	-.0360	-.0510	.2420	.1990
45.000		-.0040	-.0030	-.2200	-.2000	-.1060							-.1010	.1780	.1810
90.000		.0250	.0380	-.2080	-.1970	-.1940	-.2230	-.2010	-.1950	-.1700	-.0360	-.1040	.0090	.0880	.0040
135.000		.1640	.1890	-.1350	-.1220	-.0650							-.0580	-.0420	.1650
180.000	1.3540	.3320	.4740	-.0200	.0240	.2010	.0210	.0240	-.0620	-.0960	-.0520	-.1680	-.0550	.0660	.3340
225.000		.2710	.4520	.0880	.0980	.2430	.0780						-.0930	-.0120	.0000
270.000		.0620	.8300	.1920	-.1280	-.0510	-.1430	-.0290			-.0050	-.1870	-.0900	-.0920	.0510
315.000		-.0420	.1350	-.1780	-.2770	-.3040	-.2390					-.1630	-.0830	-.0680	

X/LS .9670

PHI

.000	.1870
45.000	.0970
90.000	.0250
135.000	.1750
180.000	.2210
225.000	-.1160
270.000	.1960
315.000	.4610

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO511) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.420

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5070	.0940	.2110	-.2510	-.2080	-.2480	-.3240	-.2550	-.3780	-.1750	-.0940	-.1630	.0330	.0650	-.0650
45.000		.1680	.2070	-.2450	-.2070	-.1310							-.0100	.0380	.0480
90.000		.3310	.3980	-.1830	-.1190	-.0750	-.0650	-.0800	-.2070	-.2120	-.2160	-.2730	-.0400	.1850	.3560
135.000		.4740	.5670	-.1130	-.0300	.0200							-.1730	.1340	.6390
180.000	1.5070	.4730	.6350	-.0990	-.0080	.1400	.2250	.2030	.0170	.0390	.1750	-.1080	-.2740	-.0020	.6480
225.000		.3360	.7310	-.0760	-.0990	.1680	.2330						-.0920	.0650	.4080
270.000		.1430	.7360	.0040	-.3680	-.2610	-.1600	-.1870			-.1200	-.2280	.0080	.0040	.0160
315.000		.0870	.1340	-.3640	-.4860	-.4590	-.2850						-.0340	-.0490	.0150

X/LS .9670

PHI

.000 - .0530
 45.000 .0620
 90.000 .3380
 135.000 .5440
 180.000 .4740
 225.000 .1520
 270.000 .1440
 315.000 .0020

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4880	.0630	.1890	-.2580	-.2240	-.2590	-.3170	-.2270	-.3610	-.1960	-.1120	-.1570	.0370	.0620	-.0310
45.000		.1360	.1560	-.2620	-.2230	-.1440							-.0170	.0380	.0470
90.000		.2880	.3440	-.2040	-.1510	-.1200	-.0990	-.1340	-.2540	-.2650	-.2080	-.2700	-.0390	.1520	.3390
135.000		.4360	.5290	-.1340	-.0540	.0490							-.1840	.1040	.5920
180.000	1.4880	.4480	.6270	-.1030	-.0170	.1710	.1870	.1650	.0050	-.0140	.1210	-.1300	-.2860	.0150	.5980
225.000		.3180	.7430	-.0710	-.0950	.1670	.1960						-.0770	.0780	.3710
270.000		.1150	.7280	-.0010	-.3670	-.2410	-.1810	-.1220			-.1180	-.2200	.0230	-.0370	.0140
315.000		.0440	.1040	-.3790	-.5010	-.4710	-.2420						-.0190	-.0190	.0850

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1693

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO511)

MACH (1) = 1.555

BETAT (2) = -6.560

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	-.0290
45.000	.0570
90.000	.3060
135.000	.4940
180.000	.4240
225.000	.0780
270.000	.1460
315.000	.1010

MACH (1) = 1.555

BETAT (3) = -4.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4590	.0420	.1640	-.2710	-.2380	-.2630	-.3360	-.2850	-.3220	-.2840	-.1610	-.1630	-.0070	.0360	-.0780
45.000		.1030	.1120	-.2790	-.2380	-.1440							-.0210	.0200	.0260
90.000		.2340	.2890	-.2270	-.1820	-.1320	-.1550	-.1730	-.2910	-.2970	-.2040	-.2460	-.0160	.1400	.3080
135.000		.3900	.5010	-.1500	-.0810	.0370							-.2100	.0780	.5310
180.000	1.4590	.4250	.6210	-.1080	-.0200	.1690	.1480	.1240	-.0260	-.0490	.0930	-.1700	-.2420	.0970	.5480
225.000		.3020	.7520	-.0670	-.0830	.1700	.1640						-.0420	.1190	.3080
270.000		.1000	.7240	-.0030	-.3650	-.2060	-.1960	-.1140			-.0570	-.2050	.0110	-.1140	.0070
315.000		.0020	.0910	-.3900	-.5090	-.4310	-.2130						.0250	.0290	.1210

X/LS .9670

PHI

.000	-.0130
45.000	.0520
90.000	.2770
135.000	.4430
180.000	.3840
225.000	.0290
270.000	.1040
315.000	.1930

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS11)

MACH (1) = 1.555

DETAT (4) = -.180

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4090	-.0070	.1340	-.2760	-.2530	-.2690	-.2200	-.0990	-.0160	-.0560	-.0440	-.1680	-.1710	.1120	-.0860
45.000		.0490	.0620	-.2970	-.2410	-.1490							.0610	.0150	.0200
90.000		.1440	.1970	-.2640	-.2250	-.1730	-.2190	-.2430	-.3450	-.2040	-.1980	-.1660	-.0360	.0720	.2410
135.000		.3060	.4070	-.1810	-.1220	-.0320							-.1480	.1170	.4370
180.000	1.4090	.3830	.6040	-.1100	.0090	.1360	.1010	.0610	-.1130	-.0900	.0150	-.2500	-.1970	.1570	.4670
225.000		.2800	.7520	-.0550	-.0190	.1890	.1160						-.0640	.0750	.1270
270.000		.0600	.6890	-.0120	-.3480	-.1890	-.2030	-.1710			.0300	-.2230	-.0510	-.1330	.0490
315.000		-.0500	.0740	-.3900	-.5090	-.4680	-.2290						-.0250	.1040	.0950

X/LS .9670

PHI

.000	-.0440
45.000	.1540
90.000	.3620
135.000	.3890
180.000	.3110
225.000	-.0960
270.000	.1080
315.000	.2790

MACH (1) = 1.555

DETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3520	-.0630	.1010	-.3100	-.2690	-.2730	-.1200	-.0110	-.0640	-.0540	.0280	-.1210	-.1540	.2730	.2180
45.000		-.0030	.0570	-.3180	-.2550	-.1420							.0670	.0080	.1020
90.000		.0530	.1120	-.3030	-.2730	-.2100	-.2630	-.2890	-.2400	-.1950	-.0650	-.1130	.0450	.1150	.2030
135.000		.2090	.3130	-.2220	-.1820	-.0940							.0650	.1940	.4770
180.000	1.3520	.3300	.5520	-.1350	.0480	.0940	.0090	.0110	-.1670	-.1630	-.1280	-.2200	.0530	.3050	.4050
225.000		.2600	.7080	-.0700	.0420	.2090	.0490						.0060	.0500	-.0560
270.000		.0580	.6800	-.0170	-.3270	-.1850	-.1820	-.2230			.0220	-.1940	-.0470	-.1080	-.0030
315.000		-.0810	.0830	-.3880	-.4930	-.4640	-.0900						-.0020	.1320	.2330

X/LS .9670

PHI

.000	.2790
45.000	.1140
90.000	.2510
135.000	.3830
180.000	.2830

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1695

AMES 97-707 1A9 O2A + S3 + T9 SRM BOOSTER

(RBO511)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0710

270.000 .0740

315.000 .4070

MACH (1) = 1.555

BETAT (6) = 6.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3230	-.0740	.1050	-.3100	-.2720	-.2630	-.0460	-.0160	.0120	.0080	.0240	-.1420	-.0510	.3040	.1930
45.000		-.0260	.0530	-.3160	-.2480	-.1210							.1750	.0890	.0600
90.000		.0180	.0830	-.3100	-.2730	-.2160	-.2750	-.2280	-.2330	-.1680	-.0970	-.1140	.0530	.0970	.1840
135.000		.1750	.2660	-.2290	-.1760	-.1260							.0230	.0990	.3660
180.000	1.3230	.3170	.5380	-.1270	.0800	.0860	-.0160	-.0010	-.1830	-.1800	-.0950	-.2460	-.0410	.1540	.4340
225.000		.2600	.7060	-.0550	.1040	.2060	.0290						.0180	.1270	-.0210
270.000		.0610	.6720	-.0130	-.3200	-.1810	-.1300	-.2370			.0070	-.2070	-.0580	-.0580	.0320
315.000		-.0910	.0920	-.3740	-.4830	-.4730	-.0620						.0030	.1160	.2670

X/LS .9670

PHI

.000 .3320

45.000 .0200

90.000 .1510

135.000 .3640

180.000 .2500

225.000 -.1380

270.000 .0850

315.000 .4020

MACH (1) = 1.555

BETAT (7) = 8.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2960	-.0800	.1080	-.2990	-.2760	-.2530	.0000	.0210	.0170	-.0280	.0310	-.1480	-.0430	.2640	.3040
45.000		-.0400	.0370	-.3210	-.2450	-.1190							.0540	.2400	-.0370
90.000		-.0070	.0550	-.3180	-.2920	-.2450	-.1920	-.1280	-.1850	-.1250	-.0750	-.1310	.0570	.0610	.1450
135.000		.1550	.2480	-.2470	-.1920	-.1710							-.0130	.0950	.3370
180.000	1.2960	.3200	.5520	-.1310	.0910	.0530	-.0420	-.0200	-.1660	-.1450	-.1480	-.2590	.0160	.3450	.3210
225.000		.3390	.7020	-.0640	.1740	.1710	-.0220						-.0200	.1040	-.1510

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBOS11)

MACH (1) = 1.555

BETAT (7) = 8.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.2420	.6490	-.0260	-.2940	-.2020	-.0930	-.1840			-.0350	-.2110	-.0940	-.1150	-.0250
315.000		-.0230	.1100	-.3630	-.4680	-.4410	-.0390						.0000	.1170	.3200

X/LS .9670

PHI

.000	.4030
45.000	.0840
90.000	.1480
135.000	.2520
180.000	.1860
225.000	-.1550
270.000	.0630
315.000	.3360

MACH (2) = 2.000

BETAT (1) = -8.390

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7340	.1710	.2110	-.1000	-.0550	-.0890	-.1940	-.1690	-.1580	-.1930	-.1370	-.1200	-.0590	.0310	-.0460
45.000		.2420	.2270	-.1300	-.1200	-.0520							-.0340	.0200	.0120
90.000		.3800	.4170	-.0460	-.0180	.0070	-.0270	-.0080	-.0620	-.1090	-.0970	-.1510	-.1270	.0860	.1140
135.000		.5110	.5350	.0150	.0680	.1070							-.0580	.2290	.1410
180.000	1.7340	.5150	.5720	.0980	.1330	.0840	.2310	.2510	.1110	.1250	.3070	.0370	-.0850	.1720	.0840
225.000		.3600	.9150	.1330	.0740	-.0110	.2940						-.2090	-.0750	-.1480
270.000		.1830	1.0140	.2610	-.1430	-.2040	-.0160	-.0570			.1020	-.2610	-.1790	-.1520	-.0380
315.000		.1110	.3150	-.1560	-.2750	-.3010	-.0990					-.0920	-.0890	-.0470	

X/LS .9670

PHI

.000	-.0820
45.000	-.0030
90.000	.1330
135.000	.5470
180.000	.5140
225.000	.0010
270.000	.1020
315.000	-.0470

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBO611)

MACH (2) = 2.000

BETAT (2) = -6.340

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7150	.1410	.1850	-.1100	-.0700	-.1030	-.1970	-.2000	-.1680	-.1740	-.1470	-.1380	-.0940	-.3020	-.0290
45.000		.2170	.1910	-.1430	-.1330	-.0510							-.3810	-.4000	.0140
90.000		.3380	.3570	-.0700	-.0430	-.0270	-.0540	-.0510	-.0970	-.1410	-.1320	-.1800	-.5140	-.4850	.0650
135.000		.4780	.4830	-.0070	.0450	.0720							-.5530	-.6000	.1020
180.000	1.7150	.5040	.5670	.0920	.1230	.0610	.1960	.2130	.0780	.0970	.1900	.0360	-.4850	-.5140	.1090
225.000		.3540	.9210	.1380	.0740	-.0090	.2280						-.5490	-.3850	-.1610
270.000		.1720	1.0150	.2610	-.1440	-.1990	-.0370	-.0740			.1000	-.0280	-.2830	-.3670	-.0120
315.000		.0960	.2950	-.1630	-.2800	-.3510	-.1710						-.3560	-.0640	-.0230

X/LS .9670

PHI	
.000	-.0460
45.000	-.0070
90.000	.0890
135.000	.4870
180.000	.4670
225.000	.0520
270.000	.1180
315.000	-.0240

MACH (2) = 2.000

BETAT (3) = -4.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6740	.1080	.1450	-.1200	-.0830	-.1250	-.1980	-.2100	-.1870	-.1800	-.1440	-.1370	-.0330	.0180	-.0560
45.000		.1830	.1610	-.1570	-.1500	-.0580							-.0280	-.0160	.0100
90.000		.2850	.3100	-.0930	-.0770	-.0470	-.0660	-.0890	-.1240	-.1700	-.1720	-.2060	-.0720	.0110	.0450
135.000		.4310	.4430	-.0290	.0130	.0490							-.1220	.1030	.0480
180.000	1.6740	.4780	.5510	.0790	.1030	.0470	.1530	.1710	.0480	.0500	.1050	-.0180	-.1420	.1090	.0580
225.000		.3440	.9280	.1370	.0660	-.0180	.2010						-.1310	-.0420	-.0740
270.000		.1580	1.0130	.2570	-.1480	-.2020	-.0510	-.0920			.0910	-.1970	-.0460	.0110	.0490
315.000		.0690	.2730	-.1720	-.2880	-.3050	-.1750						-.0390	-.0110	.0580

X/LS .9670

PHI	
.000	-.0780
45.000	.0010
90.000	.0700
135.000	.4100
180.000	.4330

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RDS611)

MACH (2) = 2.000

BETAT (3) = -4.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .1630

270.000 .1120

315.000 .0830

MACH (2) = 2.000

BETAT (4) = -.180

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.5700	.0560	.0840	-.1410	-.1170	-.1480	-.1940	-.1760	-.2020	-.1460	-.1290	-.1200	-.1230	.2290	-.0280
45.000		.1160	.0950	-.1810	-.1740	-.0770							-.0070	.0180	-.0160
90.000		.1870	.2080	-.1330	-.1200	-.1010	-.1150	-.1670	-.2290	-.1750	-.1190	-.1930	-.0810	-.0120	.0150
135.000		.3310	.3440	-.0670	-.0290	-.0090							-.1930	-.0170	-.0610
180.000	1.5700	.4180	.4980	.0520	.0800	.0340	.0830	.0990	.0080	-.0160	.0290	-.1170	-.1950	-.0160	.2700
225.000		.3090	.9130	.1320	.0660	.0190	.1410						-.1060	-.0020	.1270
270.000		.1170	.9830	.2450	-.1500	-.1890	-.0800	-.0730			.0220	-.1340	-.0420	-.0610	-.0030
315.000		.0210	.2330	-.1830	-.2950	-.3150	-.2330						-.0220	.0720	.0560

X/LS .9670

PHI

.000 -.1210

45.000 -.0250

90.000 .0190

135.000 .3390

180.000 .3900

225.000 .2210

270.000 .0960

315.000 .1360

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4800	.0160	.0610	-.1410	-.1490	-.1670	-.1520	-.0730	.0070	-.0260	-.0360	-.0780	-.1130	.1930	.2100
45.000		.0580	.0420	-.2030	-.1930	-.0920							-.0490	.1130	-.0810
90.000		.1100	.1160	-.1740	-.1620	-.1470	-.1840	-.2350	-.1960	-.1640	-.1280	-.1430	-.0590	-.0320	-.0380
135.000		.2550	.2640	-.1070	-.0740	-.0670							-.0950	-.0510	.1060
180.000	1.4800	.3850	.4580	.0210	.0520	.2170	.0210	.0660	-.0320	-.0490	.0300	-.1920	-.2110	-.0850	.2710
225.000		.2970	.7930	.1110	.0850	.2480	.0850						-.1180	-.0120	.1070

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1699

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(R80811)

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0920	.9160	.2320	-.1430	-.1360	-.1060	-.0380			-.0120	-.1670	-.0670	-.0490	.0180
315.000		-.0100	.2090	-.1830	-.2890	-.3140	-.2540						-.0760	.0270	.0220

X/LS .9670

PHI

.000	.1850
45.000	-.1380
90.000	.0440
135.000	.2260
180.000	.2890
225.000	.0760
270.000	.1370
315.000	.0910

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4200	-.0110	.0360	-.1600	-.1560	-.1750	-.1120	-.0370	-.0020	-.0310	-.0360	-.0740	-.1040	.2000	.2050
45.000		.0270	.0230	-.2150	-.2030	-.1010							-.1280	.1310	.2010
90.000		.0630	.0820	-.1940	-.1840	-.1760	-.2220	-.2400	-.2070	-.1860	-.0980	-.1380	-.0580	.0430	.0210
135.000		.2070	.2290	-.1180	-.0980	-.0750							-.0760	.0020	.0680
180.000	1.4200	.3560	.5580	-.0100	.0350	.2140	-.0050	.0490	-.0440	-.0550	-.0230	-.2150	-.0880	-.0330	.1820
225.000		.2840	.5580	.0980	.0870	.2440	.0680						-.0900	.0130	.1190
270.000		.0790	.8760	.2170	-.1390	-.0870	-.1220	-.0220			-.0110	-.1780	-.0750	-.0840	.0130
315.000		-.0250	.1880	-.1850	-.2860	-.3120	-.2540						-.0930	.0100	.0030

X/LS .9670

PHI

.000	.2480
45.000	-.0010
90.000	.1920
135.000	.1290
180.000	.2110
225.000	.0440
270.000	.1480
315.000	.3080

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS11)

MACH (2) = 2.000

BETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3720	-.0270	.0160	-.1880	-.1610	-.1830	-.0890	-.0190	-.0210	-.0280	.0030	-.0370	-.0570	.2400	.2010
45.000		.0030	-.0010	-.2180	-.2020	-.1040							-.1020	.1780	.1690
90.000		.0310	.0420	-.2060	-.1980	-.1930	-.2240	-.2060	-.1980	-.1740	-.0410	-.1040	.0090	.0890	.0070
135.000		.1770	.1940	-.1320	-.1190	-.0640							-.0590	-.0410	.1550
180.000	1.3720	.3400	.4870	-.0140	.0310	.2090	.0170	.0250	-.0610	-.0910	-.0570	-.1770	-.0620	.0470	.3290
225.000		.2800	.4660	.0890	.1010	.2380	.0820						-.0910	-.0380	.0000
270.000		.0680	.8470	.1980	-.1270	-.0620	-.1430	-.0300			-.0070	-.1830	-.0750	-.1030	.0460
315.000		-.0380	.1590	-.1760	-.2770	-.3050	-.2400						-.1490	-.0550	-.0380

X/LS .9670

PHI	
.000	.1880
45.000	.1020
90.000	.0260
135.000	.1730
180.000	.2340
225.000	-.0850
270.000	.1910
315.000	.4880

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1701

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS12) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0390 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.350

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5400	.1600	.3020	-.2220	-.1680	-.2020	-.2460	-.0830	-.0540	-.0610	-.0120	-.1060	.0340	.0750	.0320
45.000		.2610	.2970	-.2060	-.1480	-.0450							.0290	.2000	.1900
90.000		.3680	.4130	-.1660	-.0960	-.0310	-.0220	.0120	-.0990	-.0820	.0060	-.0900	.0630	.2900	.2610
135.000		.4090	.4950	-.1340	-.0650	-.0110							-.0250	.2350	.5640
180.000	1.5400	.3460	.5210	-.1360	-.0720	-.1050	.1970	.2290	.0310	.0340	.2240	-.0600	-.2150	.0300	.6400
225.000		.2560	.6190	-.1270	-.1850	-.2350	.2290						-.0650	.0390	.4270
270.000		.1820	.8070	.0360	-.3860	-.3900	-.1610	-.1580			-.0700	-.2270	.0400	.0150	.0950
315.000		.1370	.3240	-.2700	-.3800	-.2460	-.0710						.0590	-.0130	.0510

X/LS .9670

PHI

.000 .0070
 45.000 .2010
 90.000 .4130
 135.000 .5500
 180.000 .5050
 225.000 .2160
 270.000 .1980
 315.000 .0990

MACH (1) = 1.555

BETAT (2) = -6.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5170	.1300	.2790	-.2280	-.1800	-.2120	-.2280	-.0570	-.0460	-.0640	-.0340	-.1300	.0250	.0800	.0540
45.000		.2220	.2460	-.2200	-.1640	-.0620							.0390	.1950	.1850
90.000		.3210	.3600	-.1870	-.1200	-.0610	-.0030	-.0390	-.1430	-.0810	-.0070	-.0810	.0550	.2680	.2370
135.000		.3690	.4540	-.1440	-.0850	-.0320							-.0360	.2230	.5610
180.000	1.5170	.3190	.5120	-.1410	-.0790	-.1050	.1590	.1960	.0080	.0010	.1830	-.0690	-.2060	.0720	.6420
225.000		.2300	.6240	-.1260	-.1840	-.1930	.1940						-.0040	.1150	.4050
270.000		.1490	.8070	.0340	-.3860	-.4240	-.1800	-.0080			-.0070	-.1690	.0630	.0040	.1170
315.000		.1040	.3030	-.2780	-.3870	-.2620	-.1090						.1000	.0350	.0900

X/LS .9670

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO512)

MACH (1) = 1.555

BETAT (2) = -6.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.0390
45.000	.1870
90.000	.3790
135.000	.5140
180.000	.4460
225.000	.0950
270.000	.2060
315.000	.1360

MACH (1) = 1.555

BETAT (3) = -4.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4960	.1060	.2650	-.2320	-.1920	-.2190	-.1940	-.0390	-.0410	-.0750	-.0450	-.1220	.0310	.0810	.0770
45.000		.1880	.2090	-.2360	-.1800	-.0680							.0850	.2260	.1660
90.000		.2730	.3090	-.2100	-.1470	-.0790	-.0340	-.0660	-.1760	-.0830	-.0460	-.1000	.0780	.2700	.2290
135.000		.3280	.4100	-.1630	-.1030	-.0530							-.0550	.2030	.5480
180.000	1.4960	.2990	.4990	-.1450	-.0860	.0260	.1120	.1700	-.0430	-.0440	.1630	-.0760	-.0990	.1150	.6170
225.000		.2140	.6260	-.1240	-.1840	.0240	.1530						.0230	.1450	.3740
270.000		.1300	.8020	.0330	-.3850	-.3970	-.2080	.0130			.0270	-.1470	.0770	-.0310	.0940
315.000		.0790	.2960	-.2800	-.3920	-.3150	-.1490						.1710	.0880	.0510

X/LS .9670

PHI

.000	.0720
45.000	.1960
90.000	.3710
135.000	.4740
180.000	.4000
225.000	.0310
270.000	.1870
315.000	.1170

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBOS12)

MACH (1) = 1.555

BETAT (4) = -.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4530	.0610	.2380	-.2340	-.2090	-.2220	-.1190	.0130	-.0290	-.0780	-.0490	-.1330	.0490	.1070	.1200
45.000		.1270	.1460	-.2620	-.2040	-.0840							.0870	.1960	.1910
90.000		.1900	.2080	-.2510	-.1950	-.1110	-.0810	-.0950	-.1120	-.1110	-.0490	-.0940	.1170	.2430	.2370
135.000		.2550	.3500	-.1990	-.1420	-.0350							-.0230	.1470	.4930
180.000	1.4530	.2610	.4750	-.1520	-.0880	.0650	-.0580	.0870	-.1060	-.1080	.0950	-.1090	-.1100	.0680	.5340
225.000		.1920	.6330	-.1100	-.1460	.0540	.0480						-.0030	.1230	.2430
270.000		.0970	.7820	.0290	-.3590	-.2900	-.2860	-.0870			.0600	-.1700	-.0500	-.0740	.0730
315.000		.0380	.2900	-.2780	-.3810	-.3830	-.1710						.0890	.1200	.1450

X/LS .9670

PHI

.000	.1410
45.000	.3170
90.000	.4500
135.000	.4910
180.000	.3280
225.000	-.0600
270.000	.1440
315.000	.2350

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3970	.0240	.2150	-.2610	-.2270	-.2350	-.0110	.0120	-.0330	-.0370	.0580	-.1090	.1460	.3140	.2740
45.000		.0620	.1310	-.2750	-.2090	-.0980							.1770	.1960	.2080
90.000		.0990	.1590	-.2760	-.2220	-.1110	-.1120	-.0760	-.0840	-.1050	.0390	-.0200	.1520	.2270	.3140
135.000		.1610	.2810	-.2270	-.1810	-.0900							.1110	.2520	.4500
180.000	1.3970	.2140	.4540	-.1640	-.1170	.0620	-.0320	.0110	-.1370	-.1360	-.0370	-.1200	.0160	.3610	.4520
225.000		.1700	.6280	-.1120	-.1380	.0930	.0070						.0540	.1680	.0720
270.000		.0760	.7740	.0250	-.3560	-.2570	-.2690	-.0770			.0340	-.1440	-.0090	-.0150	.0940
315.000		.0090	.2880	-.2740	-.3790	-.3170	-.1210						.0660	.2220	.2240

X/LS .9670

PHI

.000	.2840
45.000	.2300
90.000	.3290
135.000	.3990
180.000	.2710

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS12)

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0160

270.000 .1600

315.000 .3780

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3680	.0020	.2090	-.2610	-.2310	-.2350	.0140	-.0010	.0090	.0270	.0470	-.1240	.1180	.3030	.3140
45.000		.0400	.1200	-.2840	-.2150	-.0950							.2490	.3150	.1950
90.000		.0650	.1180	-.2900	-.2290	-.0870	-.1310	-.0270	-.0210	-.0640	.0160	-.0470	.1330	.2060	.2690
135.000		.1260	.2480	-.2430	-.1960	-.0970							.0870	.2370	.3850
180.000	1.3680	.1930	.4510	-.1680	-.0750	.0490	-.0820	-.0220	-.1480	-.0890	-.0050	-.2200	.0520	.2290	.4040
225.000		.1600	.6380	-.1060	-.1150	.1100	-.0330						.0490	.1270	.0100
270.000		.0660	.7800	.0260	-.3550	-.2110	-.1720	-.0790			.0510	-.1760	-.0130	-.0140	.0790
315.000		-.0020	.3010	-.2690	-.3660	-.2490	-.0680						.0760	.2240	.3090

X/LS .9670

PHI

.000 .3980

45.000 .2090

90.000 .2470

135.000 .3350

180.000 .2520

225.000 -.0690

270.000 .1110

315.000 .3730

MACH (1) = 1.555

BETAT (7) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3420	-.0110	.2100	-.2610	-.2350	-.2390	.0670	.0380	.0270	-.0040	.0090	-.1210	.0830	.2910	.3520
45.000		.0190	.1050	-.2840	-.2200	-.0940							.1480	.3600	.2060
90.000		.0410	.1030	-.3000	-.2420	-.0870	-.0210	.0300	-.0660	-.0700	.0270	-.0570	.1100	.1440	.2520
135.000		.1090	.2180	-.2530	-.2230	-.1290							.0480	.1820	.2970
180.000	1.3420	.1910	.4450	-.1670	-.0090	.0230	-.1200	.0940	-.0940	-.1090	-.0880	-.2110	.0420	.3090	.3490
225.000		.1760	.6430	-.0980	-.0670	.1370	-.0770						.0060	.1060	-.1060

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(RBO512)

MACH (1) = 1.355

BETAT (7) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000	.1020	.7810	.0270	-.3470	-.2020	-.1280	-.0160				-.0130	-.1860	-.0580	-.0770	.0120
315.000	.0100	.3140	-.2590	-.3510	-.1960	-.0650							.0350	.1800	.3240

X/LS .9670

PHI

.000	.4330
45.000	.2810
90.000	.2180
135.000	.2810
180.000	.1780
225.000	-.1770
270.000	.0480
315.000	.3640

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7680	.2240	.2260	-.0700	-.0100	-.0530	-.1490	-.0480	-.0530	-.0320	-.0440	-.0740	.0440	.0930	.0490
45.000		.3120	.3160	-.0880	-.0730	.0320							.0600	.1810	.1730
90.000		.4010	.4400	-.0270	-.0030	.0200	.0420	.0550	.0340	-.0340	-.0500	-.0700	-.0210	.2180	.2690
135.000		.4480	.4680	-.0150	.0270	.0880							.0040	.3010	.2030
180.000	1.7680	.4060	.4200	.0290	.0900	.0260	.1590	.2440	.1260	.1370	.3300	.0730	-.0580	.2200	.0450
225.000		.2850	.7800	.0850	-.0060	-.0990	.1510						-.1850	-.0580	-.1340
270.000		.1970	1.0580	.2880	-.1550	-.2490	-.0300	-.0550			.0730	-.2410	-.1160	-.0570	.0930
315.000		.1650	.4900	-.0640	-.1870	-.2160	-.0140						.0260	.0010	.0410

X/LS .9670

PHI

.000	.0210
45.000	.1570
90.000	.2650
135.000	.1270
180.000	.4680
225.000	.0290
270.000	.1530
315.000	.0490

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS12)

MACH (2) = 2.000

BETAT (2) = -6.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7440	.2100	.2010	-.0860	-.0270	-.0700	-.1550	-.0610	-.0480	-.0340	-.0520	-.0870	.0150	.0640	.0310
45.000		.2880	.2670	-.1100	-.0940	.0150							.0540	.1680	.1560
90.000		.3690	.3780	-.0550	-.0360	-.0120	.0150	.0340	-.0030	-.0710	-.0870	-.0970	.0140	.2410	.2400
135.000		.4190	.4200	-.0420	.0000	.0690							-.0300	.2550	.1710
180.000	1.7440	.3930	.4130	.0160	.0690	.0050	.1790	.2040	.0880	.1010	.2630	.0500	-.0950	.1820	.0320
225.000		.2790	.7930	.0860	-.0070	-.1060	.1320						-.1640	-.0590	-.1200
270.000		.1830	1.0650	.2860	-.1000	-.2490	-.0780	-.0790			.0810	-.2290	-.0660	.0130	.1180
315.000		.1520	.4720	-.0710	-.1950	-.2290	-.0350						.0360	.0280	.0030

X/LS .9670

PHI

.000	.0320
45.000	.1510
90.000	.2240
135.000	.1010
180.000	.4270
225.000	.1370
270.000	.1060
315.000	.0460

MACH (2) = 2.000

BETAT (3) = -4.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7140	.1820	.1800	-.0980	-.0440	-.0890	-.1560	-.0730	-.0260	-.0360	-.0520	-.0920	.0000	.0520	.0440
45.000		.2490	.2340	-.1230	-.1130	.0010							.0390	.1540	.1570
90.000		.3170	.3230	-.0830	-.0650	-.0350	-.0110	.0070	-.0330	-.1010	-.1220	-.0680	.0050	.2120	.2120
135.000		.3760	.3670	-.0650	-.0160	.0410							-.0640	.1900	.1270
180.000	1.7140	.3700	.3990	-.0070	.0590	-.0080	.1550	.1700	.0620	.0500	.1770	.0210	-.1190	.1440	.0150
225.000		.2710	.7950	.0830	-.0180	-.1110	.1290						-.1070	-.0100	-.0490
270.000		.1750	1.0650	.2860	-.1630	-.2530	-.0890	-.0960			.0680	-.1760	.0200	.0500	.0980
315.000		.1340	.4450	-.0780	-.2050	-.2420	-.0630						.0340	.0540	-.0230

X/LS .9670

PHI

.000	.0510
45.000	.1460
90.000	.1900
135.000	.1260
180.000	.3980

AMES 97-707 IA9 O2A + 53 + T9 SRM BOOSTER

(RBOS12)

MACH (2) = 2.000

BETAT (3) = -4.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2120

270.000 .1630

315.000 .0450

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.6160 .1220 .1360 -.1160 -.0920 -.1180 -.1490 -.0380 .0000 -.0300 -.0640 -.0740 .0340 .0770 .0870

45.000 .1700 .1640 -.1590 -.1440 -.0330 .0550 .1280 .1610

90.000 .2230 .2300 -.1310 -.1120 -.0810 -.0400 -.0500 -.1010 -.1080 -.0680 -.0870 .0530 .2050 .1780

135.000 .2840 .2820 -.1050 -.0660 -.0190 -.0930 .1350 .0620

180.000 1.6160 .3160 .3570 -.0430 .0300 -.0360 .0750 .1000 .0000 -.0310 .0700 -.0860 -.1660 .0410 .0050

225.000 .2350 .7840 .0840 -.0150 -.1000 .1080 -.0740 .0480 .0300

270.000 .1300 1.0440 .2780 -.1630 -.2500 -.1000 -.1180 .0410 -.1310 .0100 -.0330 .0240

315.000 .0890 .4200 -.0890 -.2110 -.2590 -.1100 -.0080 .1100 .0650

X/LS .9670

PHI

.000 .0910

45.000 .1610

90.000 .1470

135.000 .2570

180.000 .4070

225.000 .2320

270.000 .1580

315.000 .1470

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.5210 .0760 .1080 -.1470 -.0920 -.1430 -.1360 .0120 .0120 -.0180 -.0200 -.0390 -.0180 .1810 .1630

45.000 .1010 .1000 -.1820 -.1650 -.0620 -.0060 .2760 .1850

90.000 .1330 .1460 -.1660 -.1520 -.1140 -.0340 -.0870 -.0890 -.0860 -.0530 -.0680 .0530 .1190 .1160

135.000 .1980 .2090 -.1350 -.1050 -.0720 -.0060 .0690 .0160

180.000 1.5210 .2650 .3180 -.0470 .0100 -.0500 .0020 .0340 -.0590 -.0880 .0500 -.1530 -.1520 -.0160 .3010

225.000 .2180 .7630 .0820 .0010 -.0650 .0680 -.0710 .0490 .0360

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0612)

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1050	.9880	.2740	-.1500	-.2380	-.1110	-.1350			.0270	-.1550	-.0290	-.0400	.0150
315.000		.0600	.3850	-.0810	-.1990	-.2540	-.1760						-.0450	.0660	.0400

X/LS .9670

PHI

.000	.1500
45.000	.1630
90.000	.0930
135.000	.2570
180.000	.2980
225.000	.0660
270.000	.1610
315.000	.2020

MACH (2) = 2.000

BETAT (6) = 5.960

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4640	.0520	.0860	-.1520	-.1060	-.1510	-.1010	.0170	-.0010	-.0150	-.0200	-.0360	-.0080	.1920	.1960
45.000		.0680	.0720	-.1900	-.1690	-.0740							.0590	.4030	.3120
90.000		.0930	.1060	-.1760	-.1660	-.1230	-.0490	-.0970	-.0590	-.1080	-.0470	-.0640	.0540	.1450	.1740
135.000		.1580	.1720	-.1480	-.1210	-.0970							-.0170	.0330	.2190
180.000	1.4640	.2420	.3110	-.0370	-.0080	-.0510	-.0280	-.0070	-.0810	-.0840	.0110	-.1740	-.0780	.0100	.3200
225.000		.2040	.6930	.0680	.0080	.0190	.0540						-.0490	.0280	.0920
270.000		.0900	.9270	.2670	-.1410	-.2320	-.1210	-.1310			.0140	-.1710	-.0550	-.0760	.0680
315.000		.0480	.3700	-.0790	-.1930	-.2500	-.1720						-.1080	-.0030	.0930

X/LS .9670

PHI

.000	.1880
45.000	.2810
90.000	.1900
135.000	.3020
180.000	.2310
225.000	.0770
270.000	.1710
315.000	.5430

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO512)

BETAT (7) = 8.010

DEPENDENT VARIABLE CP

X/LS	.9670
------	-------

PHI	
.000	.2070
45.000	.2160
90.000	.0370
135.000	.2320
180.000	.2100
225.000	-.0800
270.000	.0120
315.000	.5530

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(RBOS13) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5510	.2390	.4130	-.1740	-.1180	-.1480	-.1240	.0100	.0350	.0080	.0320	-.0520	.0970	.2040	.1650
45.000		.3350	.3960	-.1670	-.1000	.0170							.2180	.3700	.3230
90.000		.3770	.3980	-.1620	-.0880	-.0180	-.0230	.0550	.0640	.0230	.1510	.0660	.2740	.4330	.3500
135.000		.3390	.3930	-.1730	-.1000	-.0460							.1690	.3040	.1270
180.000	1.5510	.2440	.4110	-.1750	-.1210	-.1540	.1420	.2060	.0410	.0190	.3120	-.0080	-.1110	.0670	.5190
225.000		.1900	.4880	-.1890	-.2710	-.3230	.1900						-.0720	.0610	.3490
270.000		.1870	.8360	.0530	-.3740	-.3540	.0350	-.1330			-.0600	-.1720	.0900	.0840	.1670
315.000		.1910	.4900	-.1860	-.2700	-.3100	.0200						.0810	.0550	.0800

X/LS .9670

PHI

.000 .1290
 45.000 .3010
 90.000 .2960
 135.000 .4400
 180.000 .5250
 225.000 .2910
 270.000 .2270
 315.000 .1520

MACH (1) = 1.555

BETAT (2) = -6.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5300	.2110	.3920	-.1860	-.1310	-.1640	-.1030	.0200	.0290	-.0030	.0110	-.0540	.1350	.2320	.1890
45.000		.2920	.3460	-.1810	-.1180	-.0080							.2140	.3610	.3030
90.000		.3290	.3480	-.1860	-.1170	-.0420	-.0340	.0110	.0470	.0040	.1240	.0610	.2660	.4150	.3230
135.000		.3000	.3400	-.1850	-.1170	-.0650							.1520	.2800	.1040
180.000	1.5300	.2170	.3970	-.1830	-.1320	-.1680	.1120	.1920	.0230	-.0150	.2790	-.0190	-.1290	.0560	.5740
225.000		.1620	.4860	-.1920	-.2780	-.3260	.1520						.0280	.1460	.4430
270.000		.1580	.8350	.0520	-.3780	-.3570	-.0050	-.1380			-.0540	-.1420	.0950	.0790	.1320
315.000		.1600	.4750	-.1910	-.2790	-.3190	.0010						.0820	.0560	.1040

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1711

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS13)

MACH (1) = 1.555

BETAT (2) = -6.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.1750
45.000	.2820
90.000	.2540
135.000	.4420
180.000	.4780
225.000	.2020
270.000	.2190
315.000	.1810

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5050	.1890	.3800	-.1910	-.1400	-.1740	-.1060	.0260	.0250	-.0070	.0090	-.0530	.1630	.2490	.2170
45.000		.2540	.2960	-.1960	-.1400	-.0210							.2320	.3700	.3210
90.000		.2810	.2980	-.2080	-.1400	-.0560	-.0580	-.0070	.0360	-.0110	.0900	.0620	.2630	.3980	.3000
135.000		.2610	.2980	-.1930	-.1350	-.0710							.1410	.2670	.1160
180.000	1.5050	.1960	.3910	-.1870	-.1390	-.1600	.0480	.1770	-.0090	.0050	.2370	-.0380	-.0840	.1130	.5860
225.000		.1430	.4850	-.1910	-.2740	-.3070	.1090						.0630	.1850	.3970
270.000		.1400	.8320	.0520	-.3720	-.3650	-.0460	-.0970			.0020	-.1140	.0960	.0230	.1230
315.000		.1420	.4750	-.1910	-.2770	-.3200	-.0100						.0880	.0520	.1000

X/LS .9670

PHI

.000	.1800
45.000	.2840
90.000	.2330
135.000	.4330
180.000	.4320
225.000	.1260
270.000	.2060
315.000	.1890

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0613)

MACH (1) = 1.555

BETAT (4) = -.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4630	.1490	.3520	-.2000	-.1580	-.1910	-.0600	.0340	.0100	-.0040	.0110	-.0890	.1360	.2340	.2480
45.000		.1890	.2290	-.2160	-.1700	-.0540							.2190	.3190	.3490
90.000		.2020	.2040	-.2590	-.1820	-.0810	-.0170	-.0180	.0220	-.0490	.0770	.0430	.2510	.3610	.2850
135.000		.1930	.2330	-.2140	-.1660	-.1020							.1140	.2250	.3510
180.000	1.4630	.1560	.3710	-.1950	-.1520	-.0790	-.0350	.1230	-.0750	-.0500	.1730	-.0860	-.0300	.1030	.5600
225.000		.1120	.4890	-.1840	-.2620	-.0900	-.0260						.0430	.1790	.2940
270.000		.1060	.8170	.0490	-.3560	-.2640	-.1220	-.0670			.0280	-.1410	.0550	-.0110	.1420
315.000		.1080	.4720	-.1870	-.2670	-.3120	-.0140						.0540	.0590	.1640

X/LS .9670

PHI

.000	.2890
45.000	.3420
90.000	.3420
135.000	.5070
180.000	.3630
225.000	.0250
270.000	.1920
315.000	.2640

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4130	.1030	.3190	-.2160	-.1800	-.2030	.0010	.0100	-.0170	-.0200	.0660	-.0590	.2000	.3310	.3800
45.000		.1080	.2020	-.2520	-.1990	-.0890							.2850	.3700	.3350
90.000		.1130	.1410	-.2800	-.1940	-.0960	-.0340	.0300	-.0100	-.0540	.1220	.0670	.2100	.2700	.2440
135.000		.1150	.2420	-.2460	-.1880	-.1250							.1520	.2040	.4350
180.000	1.4130	.1070	.3470	-.2050	-.1710	-.0430	-.0030	.0460	-.0860	-.1160	.0780	-.1100	.0390	.3460	.4170
225.000		.0880	.5000	-.1770	-.2470	-.0430	.0360						.0970	.2980	.1670
270.000		.0900	.8200	.0460	-.3600	-.1820	-.0270	-.0150			.0430	-.1130	.0540	.0910	.2040
315.000		.0860	.4660	-.1850	-.2620	-.2900	.0250						.1190	.2050	.3620

X/LS .9670

PHI

.000	.3960
45.000	.3050
90.000	.2910
135.000	.3410
180.000	.2620

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1713

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(R00S13)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0110

270.000 .2450

315.000 .3640

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3820 .0910 .3150 -.2180 -.1840 -.2000 -.0010 -.0150 .0200 .0390 .0520 -.0880 .1880 .3360 .4240

45.000 .0860 .1830 -.2600 -.2090 -.0940 .0330 .0450 -.0020 .0850 .0290 .1920 .2560 .2510

90.000 .0860 .1180 -.2800 -.2020 -.0900 -.0330 .0330 .0450 -.0020 .0850 .0290 .1920 .2560 .2510

135.000 .0870 .2060 -.2550 -.2020 -.0630 .0330 .0450 -.0020 .0850 .0290 .1920 .2560 .2510

180.000 1.3820 .0940 .3400 -.2100 -.1700 -.0010 -.0440 .0140 -.0800 -.0770 .0640 -.1440 .0710 .3500 .3920

225.000 .0870 .5010 -.1680 -.2320 .0120 -.0070 .0330 .0450 -.0020 .0850 .0290 .1920 .2560 .2510

270.000 .0940 .8180 .0480 -.3520 -.0880 -.0310 -.0110 .0700 -.1130 .0010 .0180 .1440

315.000 .0840 .4830 -.1770 -.2470 -.2630 .0220 .1250 .2070 .3140

X/LS .9670

PHI

.000 .4350

45.000 .2890

90.000 .2580

135.000 .3100

180.000 .2330

225.000 -.1160

270.000 .1740

315.000 .3950

MACH (1) = 1.555

BETAT (7) = 8.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3610 .0800 .3100 -.2180 -.1840 -.2020 .0130 .0210 .0420 .0040 -.0010 -.0970 .1940 .3980 .4800

45.000 .0620 .1640 -.2680 -.2230 -.1110 .0330 .0420 .0040 -.0340 .0510 .0190 .2020 .2430 .1700

90.000 .0550 .1040 -.2880 -.2160 -.0700 .0680 .0830 .0010 -.0340 .0510 .0190 .2020 .2430 .1700

135.000 .0630 .1770 -.2660 -.2170 -.0790 .0330 .0420 .0040 -.0340 .0510 .0190 .2020 .2430 .1700

180.000 1.3610 .0750 .3370 -.2070 -.1590 -.0060 -.0870 .0790 -.0410 -.0900 -.0380 -.1490 .0510 .3390 .3540

225.000 .0860 .5180 -.1590 -.2050 .0260 -.0560 .0390 .1690 -.0670

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(R00613)

MACH (1) = 1.555

BETAT (7) = 8.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1130	.8240	.0510	-.3480	-.0100	-.0430	.0050			-.0020	-.1480	-.0260	.0020	.0630
315.000		.0860	.4920	-.1670	-.2350	-.2160	.0070						.1360	.3390	.2820

X/LS .9670

PHI

.000	.4610
45.000	.2430
90.000	.2370
135.000	.2450
180.000	.1780
225.000	-.1950
270.000	.1320
315.000	.3520

MACH (2) = 2.000

BETAT (1) = -8.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7800	.3050	.2840	-.0390	.0380	-.0150	-.0990	.0320	.0200	.0570	.0170	-.0250	.0630	.1600	.1510
45.000		.3750	.3800	-.0520	-.0320	.0730							.1840	.3490	.3300
90.000		.4110	.4470	-.0270	.0010	.0220	.0690	.0340	.0820	.0580	.0590	.0930	.2310	.4530	.4050
135.000		.3860	.3830	-.0540	-.0270	.0510							.1510	.4370	.2730
180.000	1.7800	.3110	.2980	-.0390	.0400	-.0200	-.0930	.1720	.1380	.1480	.3800	.1350	.0300	.2700	.0710
225.000		.2290	.6370	.0160	-.0840	-.1620	.1710						-.1180	-.0260	-.1200
270.000		.2040	1.0550	.2920	-.1420	-.2640	.1190	.0300			.0950	-.1680	-.0260	.0280	.1210
315.000		.2240	.6240	.0140	-.0880	-.1600	.0040						.0760	.0710	.0730

X/LS .9670

PHI

.000	.1400
45.000	.3070
90.000	.3480
135.000	.1700
180.000	.3990
225.000	.1310
270.000	.1950
315.000	.1230

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1713

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0613)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7670	.2930	.2710	-.0530	.0190	-.0290	-.1020	.0220	.0200	.0290	.0070	-.0330	.0590	.1650	.1670
45.000		.3500	.3390	-.0760	-.0560	.0530							.1860	.3390	.3270
90.000		.3800	.3870	-.0560	-.0340	-.0010	.0460	.0110	.0610	.0400	.0340	.0720	.2340	.4280	.3670
135.000		.3610	.3410	-.0790	-.0500	.0390							.1690	.3740	.2580
180.000	1.7670	.3030	.2810	-.0580	.0200	-.0270	-.0910	.1860	.1110	.1150	.3160	.0940	-.0200	.2480	.0640
225.000		.2190	.6440	.0160	-.0860	-.1720	.1660						-.0910	-.0200	-.0260
270.000		.1890	1.0630	.2950	-.1410	-.2660	.0930	-.0030			.0710	-.1410	.0510	.0730	.1440
315.000		.2130	.6240	.0100	-.0930	-.1680	-.0040						.0710	.0800	.0700

X/LS .9670

PHI

.000	.1540
45.000	.2990
90.000	.3170
135.000	.1530
180.000	.3690
225.000	.1670
270.000	.1810
315.000	.1220

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7360	.2720	.2650	-.0670	.0050	-.0500	-.1070	.0060	.0280	.0250	-.0010	-.0410	.0770	.1840	.1920
45.000		.3160	.3010	-.0910	-.0670	.0290							.1850	.3250	.3190
90.000		.3390	.3280	-.0770	-.0550	-.0200	.0190	-.0080	.0390	.0250	.0210	.0550	.2190	.3890	.3480
135.000		.3240	.3100	-.0890	-.0520	.0030							.1030	.3580	.2290
180.000	1.7360	.2820	.2750	-.0610	.0070	-.0490	.0410	.1680	.0930	.0560	.2730	.0850	-.0570	.2240	.0560
225.000		.2150	.6280	.0120	-.0960	-.1750	.1350						-.0450	.0620	.0390
270.000		.1850	1.0560	.2980	-.1430	-.2720	.0610	-.0190			.0740	-.1130	.1040	.0480	.1080
315.000		.2060	.6080	.0100	-.0990	-.1780	-.0160						.0700	.0880	.0680

X/LS .9670

PHI

.000	.1830
45.000	.2920
90.000	.2910
135.000	.1350
180.000	.3510

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS13)

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2550

270.000 .1590

315.000 .1130

MACH (2) = 2.000

BETAT (4) = -.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6360	.2070	.2210	-.0920	-.0180	-.0790	-.1100	.0120	.0250	.0140	-.0090	-.0290	.0770	.1680	.1960
45.000		.2240	.2180	-.1280	-.0970	-.0180							.1790	.2730	.2920
90.000		.2330	.2320	-.1210	-.1050	-.0570	-.0060	.0040	.0300	.0080	-.0140	.0300	.2160	.3680	.3100
135.000		.2330	.2220	-.1280	-.0870	-.0300							.0510	.2000	.1650
180.000	1.6360	.2170	.2310	-.0900	-.0210	-.0760	.0850	.1180	.0170	-.0140	.1940	-.0090	-.1080	.1180	.0180
225.000		.1710	.6240	.0170	-.0930	-.1790	.0810						-.0360	.0820	.0020
270.000		.1350	1.0260	.2970	-.1420	-.2710	.0250	-.0510			.0480	-.1020	.0530	-.0020	.0650
315.000		.1610	.5880	.0070	-.1010	-.1820	-.0240						.0630	.1270	.1000

X/LS .9670

PHI

.000 .2000

45.000 .2760

90.000 .2490

135.000 .0860

180.000 .4190

225.000 .2280

270.000 .1760

315.000 .2220

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.0000	.0000	.0000	-.1040	-.0480	-.1050	-.1120	.0140	.0060	-.0090	-.0080	-.0330	.1120	.2400	.2750
45.000		.0000	.0000	-.1560	-.1270	-.0260							.2010	.2710	.2620
90.000		.0000	.0000	-.1580	-.1390	-.1000	-.0270	-.0210	.0310	-.0190	-.0190	.0210	.1500	.2310	.2300
135.000		.0000	.1600	-.1560	-.1220	-.0630							.1310	.2220	.1120
180.000	.0000	.0000	.2030	-.0980	-.0410	-.0960	.0080	.0480	-.0370	-.0690	.1050	-.0780	-.0830	.1670	.0940
225.000		.0000	.5640	.0070	-.0810	-.1620	.0650						.0180	.0950	.0080

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1717

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO513)

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000	.0000	.9400	.2920	-.1380	-.2640	.0060	-.0460				.0490	-.1220	-.0050	-.0230	.0660
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315.000	.0000	.5350	.0010	-.0910	-.1780	-.0240							.0300	.1560	.1770
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X/LS .9670

PHI

.000 .2640

45.000 .2360

90.000 .1880

135.000 .1620

180.000 .2780

225.000 .0710

270.000 .1540

315.000 .3920

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4810	.1340	.1800	-.1120	-.0630	-.1150	-.1080	.0010	-.0130	-.0040	-.0100	-.0250	.0870	.2530	.3120
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45.000		.1100	.1190	-.1690	-.1400	-.0570							.1820	.2960	.3210
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90.000		.1020	.1160	-.1690	-.1490	-.1150	-.0090	-.0240	.0280	-.0330	-.0100	.0020	.2310	.3560	.2980
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135.000		.1150	.1270	-.1670	-.1350	-.0840							.1220	.2230	.1380
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180.000	1.4810	.1410	.1910	-.1040	-.0590	-.1010	-.0260	-.0030	-.0670	-.0430	.0540	-.0510	-.0630	.1220	.3140
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225.000		.1310	.5340	.0100	-.0740	-.1550	.0540						.0030	.0530	.0820
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270.000		.1010	.9030	.2850	-.1250	-.2560	-.0050	-.0380			.0410	-.1400	-.0190	-.0330	.0750
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315.000		.1250	.5150	.0020	-.0820	-.1710	-.0080						.0190	.1660	.3070
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X/LS .9670

PHI

.000 .3280

45.000 .3030

90.000 .2530

135.000 .3650

180.000 .2760

225.000 .0330

270.000 .1400

315.000 .4040

AMES 97-757 1A9 02A + S3 + T9 SRM BOOSTER

(RB0613)

MACH (2) = 2.000

BETAT (7) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4350	.1160	.1670	-.1210	-.0750	-.1240	-.0990	-.0180	-.0360	.0010	.0340	.0100	.0940	.2770	.3410
45.000		.0800	.0920	-.1810	-.1580	-.0920							.2220	.2930	.2740
90.000		.0710	.0780	-.1840	-.1680	-.1050	-.0030	-.0030	.0100	-.0410	.0390	.0730	.1370	.4060	.2520
135.000		.0860	.0980	-.1810	-.1560	-.1110							.1140	.1700	.0660
180.000	1.4350	.1260	.1720	-.1060	-.0680	-.1080	-.0450	-.0610	-.0900	-.0370	.0440	-.0380	-.0620	.0790	.3390
225.000		.1220	.1240	.0140	-.0640	-.1270	.0900						-.0390	.0210	.0940
270.000		.0910	.8840	.2710	-.1230	-.2450	.0060	-.0550			.0150	-.1450	.0030	.0220	.0190
315.000		.1160	.4840	.0030	-.0750	-.1590	.0230						-.0000	.1220	.4430

X/LS .9670

PHI

.000	.4670
45.000	.2570
90.000	.1800
135.000	.2450
180.000	.2480
225.000	-.0440
270.000	.2200
315.000	.3040

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1719

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBO514) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5440	.3380	.5190	-.1380	-.0700	-.0940	-.0680	.0320	.0670	.0540	.0830	-.0190	.1310	.2660	.2980
45.000		.3980	.4890	-.1350	-.0690	.0530							.3290	.4510	.4340
90.000		.3650	.4030	-.1670	-.0970	-.0320	-.0430	-.0340	.1130	.0600	.2470	.1520	.4140	.5120	.4170
135.000		.2600	.2940	-.2120	-.1480	-.0970							.3050	.3560	.1530
180.000	1.5440	.1600	.2990	-.2220	-.1710	-.1460	.0210	.0830	.0500	.0790	.3660	.0330	-.0280	.0990	.4180
225.000		.1340	.3250	-.2700	-.2630	-.2460	.0080						-.0260	.1120	.2680
270.000		.1720	.7940	.0340	-.3300	-.2320	.0140	.1090			-.0860	-.1490	.0990	.2110	.2950
315.000		.2530	.6220	-.1240	-.1670	-.2080	-.0070						.1360	.1510	.1650

X/LS .9670

PHI

.000 .2840
 45.000 .4070
 90.000 .3430
 135.000 .3280
 180.000 .4520
 225.000 .2520
 270.000 .3400
 315.000 .2290

MACH (1) = 1.555

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5290	.3080	.5050	-.1420	-.0780	-.1070	-.0710	.0520	.0550	.0400	.0790	-.0010	.1990	.3150	.3030
45.000		.3570	.4400	-.1460	-.0840	.0290							.3140	.4210	.4140
90.000		.3230	.3480	-.1860	-.1240	-.0590	-.0580	-.0190	.0910	.0300	.2200	.1440	.4040	.4880	.3850
135.000		.2300	.2410	-.2260	-.1640	-.1070							.2870	.3410	.1340
180.000	1.5290	.1350	.2810	-.2250	-.1810	-.1560	.0210	.0800	.0280	.0310	.3530	.0170	-.0400	.0880	.4760
225.000		.1060	.3140	-.2720	-.2610	-.2550	-.0070						-.0100	.1460	.3820
270.000		.1440	.7940	.0340	-.3310	-.2390	.0040	.1060			-.1020	-.1130	.1270	.1710	.1970
315.000		.2210	.6160	-.1220	-.1730	-.2130	-.0190						.1460	.1120	.1540

X/LS .9670

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RDCS14)

MACH (1) = 1.555

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3130
45.000	.3840
90.000	.3050
135.000	.3340
180.000	.4350
225.000	.2240
270.000	.2790
315.000	.2210

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5030	.2860	.4900	-.1480	-.0880	-.1180	-.0790	.0490	.0350	.0280	.0690	.0190	.2410	.3290	.3130
45.000		.3160	.3980	-.1580	-.1030	.0020							.3150	.4080	.3970
90.000		.2730	.2990	-.2100	-.1460	-.0700	-.0830	-.0020	.0760	.0090	.1800	.1220	.3940	.4530	.3630
135.000		.1950	.2100	-.2390	-.1750	-.1080							.2730	.3360	.1200
180.000	1.5030	.1140	.2700	-.2280	-.1890	-.1620	.0170	.0720	.0100	.0530	.3040	.0110	-.0510	.1010	.5300
225.000		.0830	.3120	-.2740	-.2840	-.2720	.0150						.0800	.2090	.4020
270.000		.1280	.7920	.0350	-.3510	-.2580	.0180	.0960			-.0760	-.0940	.1050	.1040	.1470
315.000		.2080	.6160	-.1230	-.1710	-.2250	-.0170						.1170	.0850	.1460

X/LS .9670

PHI

.000	.3080
45.000	.3710
90.000	.2810
135.000	.3540
180.000	.4140
225.000	.1400
270.000	.2430
315.000	.2200

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBCS14)

MACH (1) = 1.555

BETAT (4) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4610	.2500	.4630	-.1600	-.1060	-.1350	-.0810	.0230	.0090	.0200	.0480	-.0320	.2520	.3620	.3700
45.000		.2430	.3290	-.1970	-.1430	-.0590							.2850	.3690	.3850
90.000		.1890	.2130	-.2470	-.1900	-.1080	-.0940	-.0020	.0520	-.0180	.1200	.0740	.3530	.3410	.3370
135.000		.1310	.1560	-.2600	-.1950	-.1250							.2280	.3110	.0880
180.000	1.4610	.0680	.2470	-.2280	-.2020	-.1840	-.0200	.0420	-.0510	.0050	.2120	-.0540	.0010	.1070	.5050
225.000		.0400	.3120	-.2720	-.3490	-.2860	.0230						.0840	.1800	.3340
270.000		.0990	.7870	.0340	-.3530	-.2710	.0380	.0530			.0610	-.1030	.0650	.0690	.1750
315.000		.1820	.6180	-.1170	-.1630	-.2160	.0160						.1540	.1690	.2660

X/LS .9670

PHI

.000	.3890
45.000	.3900
90.000	.2840
135.000	.4450
180.000	.4040
225.000	.0950
270.000	.2440
315.000	.3460

MACH (1) = 1.555

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4030	.2130	.4350	-.1690	-.1200	-.1480	-.0250	-.0120	-.0250	.0060	.0800	-.0210	.3080	.4850	.4980
45.000		.1620	.2720	-.2280	-.1820	-.1190							.2770	.3620	.3550
90.000		.0980	.1340	-.2800	-.2210	-.1200	-.0380	.0170	.0040	-.0370	.1260	.0860	.3610	.3150	.2360
135.000		.0620	.1350	-.2660	-.1920	-.1290							.2060	.2690	.3890
180.000	1.4030	.0190	.2610	-.2450	-.2150	-.2020	-.0020	-.0090	-.0430	-.0340	.1780	-.0710	.0740	.2320	.4100
225.000		.0110	.3380	-.2550	-.3480	-.2570	.0440						.1090	.2650	.1660
270.000		.0770	.7990	.0400	-.3530	-.2480	.0450	-.0170			.0830	-.0870	.0760	.1110	.2320
315.000		.1720	.6220	-.1140	-.1560	-.1890	.0600						.2600	.4200	.3070

X/LS .9670

PHI

.000	.4700
45.000	.3140
90.000	.2450
135.000	.3440
180.000	.2520

AMES 97-707 1A9 OCA + S3 + T9 SRM BOOSTER

(RBOS14)

MACH (1) = 1.555

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0240

270.000 .2810

315.000 .3620

MACH (1) = 1.555

BETAT (6) = 6.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3750	.1940	.4260	-.1730	-.1320	-.1440	-.0260	-.0520	-.0280	.0710	.0650	-.1020	.3540	.5140	.5030
45.000		.1240	.2390	-.2420	-.2010	-.1390							.2360	.3410	.3580
90.000		.0670	.1130	-.2880	-.2280	-.1220	-.0150	.0030	.0390	-.0110	.0830	.0510	.3350	.2930	.1880
135.000		.0370	.1310	-.2740	-.2010	-.1280							.1670	.2430	.3880
180.000	1.3750	.0030	.2480	-.2480	-.2210	-.0740	-.0270	.0560	-.0140	.0640	.1240	-.1080	.0810	.2950	.3730
225.000		.0000	.3420	-.2520	-.3480	-.1910	.0220						.1000	.2060	.0480
270.000		.0730	.7960	.0400	-.3480	-.2210	.0240	-.0630			.0920	-.0860	.0350	.0530	.1640
315.000		.1690	.6220	-.1090	-.1440	-.1630	.0630						.2200	.3500	.4040

X/LS .9670

PHI

.000 .4890

45.000 .3260

90.000 .1680

135.000 .3150

180.000 .2030

225.000 -.0830

270.000 .2060

315.000 .4220

MACH (1) = 1.555

BETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3460	.1810	.4130	-.1770	-.1350	-.1370	-.0500	.0370	.0610	.0340	.0130	-.1120	.3550	.4830	.4900
45.000		.0960	.2030	-.2540	-.2240	-.1690							.2390	.3130	.3090
90.000		.0420	.0900	-.3010	-.2380	-.1230	.0800	.0390	-.0060	-.0390	.0570	.0480	.2860	.3240	.1750
135.000		.0100	.1230	-.2800	-.2140	-.0960							.1240	.1970	.3210
180.000	1.3460	-.0090	.2400	-.2510	-.2230	-.0370	-.0510	.1210	-.0160	-.0100	.0250	-.1300	.0670	.2720	.3410
225.000		-.0080	.3470	-.2460	-.3350	-.0770	-.0160						.0550	.1780	-.0120

PAGE 1723

(RPOS14)

BETAT (7) = 8.945

DEPENDENT VARIABLE CP

PHI													
270.000	.0690	.7970	.0400	-.3480	-.1570	-.0140	-.1230		.0280	-.1020	.0080	.0410	.1110
315.000	.1660	.6150	-.1110	-.1350	-.1150	.0580				.1620	.3390	.3800	

FBI	
.0000	.4530
45.000	.2580
90.000	.1760
135.000	.2440
180.000	.1720
225.000	-.1130
270.000	.1260
315.000	.3930

BETAT (1) = -8.290

DEPENDENT VARIABLE CP

PHI																
.000	1.7770	.3980	.3980	.0220	.0830	.0310	-.0360	.0070	.0740	.0690	.0960	.0270	.1620	.2640	.2680	
45.000		.4350	.4520	-.0190	.0140	.1160							.3340	.4550	.4520	
90.000		.4020	.4380	-.0300	-.0040	.0190	.0420	.0200	.0680	.0930	.1010	.1920	.4210	.5320	.4650	
135.000		.3210	.3230	-.0900	-.0760	-.0120							.1900	.4660	.3260	
180.000	1.7770	.2380	.2250	-.0810	-.0150	-.0600	-.1440	-.0430	.1560	.1130	.3990	.1970	.0430	.3200	.0920	
225.000		.1750	.4700	-.0550	-.1690	-.2270	.1020						-.0920	-.0330	-.1140	
270.000		.1990	1.0040	.2750	-.1270	-.2550	.0320	.1630			.0430	-.1510	-.0260	-.0250	.1490	
315.000		.2860	.7350	.0770	.0050	-.0910	-.0360						.1030	.1410	.0560	

PHI	
.000	.2480
45.000	.4230
90.000	.4070
135.000	.2130
180.000	-.0080
225.000	.1410
270.000	.2450
315.000	.1610

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO614)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7580	.3880	.3840	.0030	.0650	.0150	-.0410	-.0010	.0660	.0580	.0730	.0150	.1680	.2810	.2840
45.000		.4130	.4060	-.0420	-.0080	.1130							.3210	.4350	.4320
90.000		.3710	.3720	-.0570	-.0360	-.0030	.0190	-.0030	.0600	.0800	.0600	.1710	.4000	.5130	.4420
135.000		.3020	.2680	-.1100	-.0850	-.0150							.2080	.5350	.3220
180.000	1.7580	.2250	.2000	-.0970	-.0370	-.0670	-.1420	.0890	.1300	.0930	.3490	.1540	.0550	.2870	.0790
225.000		.1620	.4660	-.0580	-.1700	-.2390	.0270						-.0890	-.0430	-.0680
270.000		.1840	1.0010	.2780	-.1240	-.2530	.0170	.1440			.0490	-.1150	.0140	.0400	.1540
315.000		.2760	.7350	.0810	.0080	-.0990	-.0500						.1080	.1280	.0810

X/LS .9670

PHI

.000	.2630
45.000	.4030
90.000	.3830
135.000	.1960
180.000	-.0290
225.000	.1190
270.000	.2530
315.000	.1590

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7240	.3620	.3700	-.0150	.0500	-.0040	-.0460	-.0060	.0560	.0510	.0480	.0100	.1880	.2960	.3000
45.000		.3650	.3590	-.0650	-.0330	.0900							.2950	.4020	.4070
90.000		.3180	.3320	-.0850	-.0660	-.0310	-.0060	-.0250	.0580	.0590	.0400	.1390	.3690	.4440	.4030
135.000		.2550	.2420	-.1260	-.1110	-.0270							.2150	.5550	.3090
180.000	1.7240	.1900	.1900	-.1060	-.0470	-.0830	-.1470	.0980	.1140	.0660	.3070	.1300	.0240	.2530	.0730
225.000		.1420	.4380	-.0730	-.1810	-.2450	.1410						-.0510	.0280	-.0080
270.000		.1750	.9950	.2750	-.1290	-.2550	.0180	.1270			.0810	-.0950	.0510	.0690	.1270
315.000		.2670	.7330	.0730	.0000	-.1040	-.0610						.1050	.0950	.1070

X/LS .9670

PHI

.000	.2800
45.000	.3780
90.000	.3480
135.000	.1840
180.000	-.0360

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1725

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBOS14)

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2000

270.000 .2240

315.000 .1770

MACH (2) = 2.000

BETAT (4) = -.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6270	.3040	.3280	-.0390	.0290	-.0290	-.0520	.0120	.0230	.0290	.0220	-.0250	.1930	.3130	.3220
45.000		.2740	.2790	-.1020	-.0700	.0330							.2470	.3320	.3480
90.000		.2220	.2310	-.1250	-.1090	-.0770	-.0400	-.0540	.0520	.0300	-.0050	.0850	.3150	.3210	.3290
135.000		.1800	.1660	-.1570	-.1390	-.0510							.1940	.4330	.2530
180.000	1.6270	.1360	.1390	-.1100	-.1140	.0330	.1230	.0420	.0120	.2540	.0540	-.0350	.2140	.0460	
225.000		.1050	.4200	-.0750	-.1890	-.2610	.0470						-.0250	.1260	.0970
270.000		.1330	.9760	.2770	-.1300	-.2500	.0480	.1170			.0940	-.0860	.0700	.0370	.0890
315.000		.2380	.7270	.0730	.0030	-.1000	-.0620						.1170	.1300	.1770

X/LS .9670

PHI

.000 .2970

45.000 .3290

90.000 .2810

135.000 .1340

180.000 .1560

225.000 .3040

270.000 .1730

315.000 .2800

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5270	.2600	.3120	-.0620	.0030	-.0590	-.0700	.0150	-.0240	.0010	-.0010	-.0390	.2190	.3750	.3490
45.000		.1920	.2020	-.1350	-.1090	-.0390							.1940	.2740	.2890
90.000		.1360	.1450	-.1630	-.1510	-.1130	-.0630	-.0130	.0180	-.0120	-.0090	.0530	.2750	.3480	.2290
135.000		.1070	.1020	-.1820	-.1580	-.0780							.1340	.3580	.2230
180.000	1.5270	.0820	.1100	-.1440	-.0810	-.1330	.0460	.0540	-.0240	-.0090	.1120	-.0200	-.0540	.1770	.0260
225.000		.0600	.3940	-.0690	-.1830	-.2440	.0730						.0400	.1110	.0490

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS14)

MACH (2) = 2.555

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEFENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1030	.9480	.2760	-.1330	-.2440	.0970	.0860			.0660	-.1040	-.0050	-.0120	.0860
315.000		.2140	.6740	.0780	.0100	-.0910	-.0540					.1050	.2340	.3540	

X/LS .9675

PHI

.000	.4140
45.000	.2700
90.000	.1910
135.000	.0860
180.000	.3130
225.000	.1420
270.000	.1550
315.000	.2900

MACH (2) = 2.000

BETAT (6) = 5.997

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4720	.2340	.2990	-.0600	-.0060	-.0640	-.0710	-.0050	-.0480	.0100	.0000	-.0540	.2280	.3380	.3900
45.000		.1500	.1680	-.1470	-.1240	-.0680							.1870	.2880	.3300
90.000		.0950	.1110	-.1750	-.1650	-.1170	-.0720	-.0180	-.0010	-.0330	-.0110	.0350	.2690	.3940	.2350
135.000		.0720	.0750	-.1880	-.1580	-.0890							.1980	.3830	.2450
180.000	1.4720	.0590	.0920	-.1520	-.0850	-.1420	.0100	.0200	-.0460	.0160	.0670	-.0240	-.0540	.1280	.0230
225.000		.0570	.3960	-.0640	-.1780	-.2060	.0570						-.0270	.0660	.0560
270.000		.0960	.9460	.2700	-.1220	-.2340	.0510	.0550			.0420	-.1130	-.0140	.0110	.0610
315.000		.2070	.6790	.0830	.0170	-.0800	-.0350						.0500	.2640	.4110

X/LS .9670

PHI

.000	.4020
45.000	.3410
90.000	.2100
135.000	.1130
180.000	.3520
225.000	.0820
270.000	.1760
315.000	.3230

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1727

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RB0614)

MACH (2) = 2.000

BETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4210	.2130	.2860	-.0740	-.0230	-.0760	-.0690	-.0220	-.0610	.0040	.0020	-.0410	.2280	.3280	.4290
45.000		.1150	.1320	-.1680	-.1460	-.1040							.2440	.3330	.3110
90.000		.0580	.0720	-.1950	-.1840	-.1180	-.0580	-.0170	-.0320	-.0560	.0060	.0730	.2900	.3830	.1840
135.000		.0430	.0450	-.2000	-.1710	-.1010							.1280	.2860	.1650
180.000	1.4210	.0360	.0670	-.1380	-.1000	-.1560	-.0150	-.0310	-.0660	-.0100	.0880	.0080	-.0860	.0540	.1520
225.000		.0430	.4020	-.0600	-.1630	-.2070	.0700						-.0770	.0040	.1750
270.000		.0810	.9010	.2610	-.1230	-.2290	.0950	-.0060			.0090	-.1150	.0230	.0770	.0970
315.000		.1960	.4870	.0620	.0160	-.0670	.0050						.0810	.4340	.3290

X/LS .9670

PHI

.000	.4250
45.000	.2870
90.000	.1430
135.000	.0620
180.000	.2980
225.000	.0180
270.000	.2410
315.000	.3150

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO515) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 DREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.320

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5290	.3930	.5770	-.1210	-.0400	-.0600	-.0390	.0540	.0650	.0580	.1170	.0220	.1940	.3520	.3800
45.000		.4250	.5240	-.1210	-.0520	.0770							.3790	.4950	.4800
90.000		.3410	.3970	-.1740	-.1090	-.0450	-.0630	-.0670	.0800	.0580	.2740	.1770	.4500	.5110	.4300
135.000		.2200	.2350	-.2300	-.1740	-.1250							.3510	.3500	.1600
180.000	1.5290	.1310	.2530	-.2370	-.1870	-.1750	-.0280	.0570	.0780	.1230	.3630	.0440	-.0280	.1050	.3040
225.000		.1090	.2380	-.3120	-.3040	-.2860	.0070						-.0080	.1140	.2620
270.000		.1570	.7650	.0220	-.3440	-.2700	-.0030	.1280			-.0860	-.1420	.1150	.2320	.3090
315.000		.2860	.6790	-.0960	-.1210	-.1750	-.0020						.1690	.1860	.2070

X/LS .9670

PHI

.000 .3410
 45.000 .4530
 90.000 .3570
 135.000 .0560
 180.000 .4190
 225.000 .2270
 270.000 .3310
 315.000 .2510

MACH (1) = 1.555

BETAT (2) = -6.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5150	.3630	.5630	-.1260	-.0500	-.0750	-.0410	.0600	.0550	.0510	.1090	.0260	.2580	.3810	.3620
45.000		.3880	.4850	-.1380	-.0720	.0360							.3570	.4600	.4500
90.000		.3030	.3460	-.1950	-.1360	-.0780	-.0810	-.1010	.0630	.0250	.2350	.1570	.4200	.4560	.3920
135.000		.1920	.1940	-.2500	-.1900	-.1320							.3400	.3480	.1470
180.000	1.5150	.1060	.2350	-.2470	-.1940	-.1780	-.0110	.0670	.0480	.0710	.3300	.0340	-.0460	.0940	.3870
225.000		.0740	.2290	-.3200	-.2940	-.2860	-.0080						.0080	.1650	.3690
270.000		.1380	.7700	.0200	-.3470	-.2570	-.0190	.1210			-.0880	-.1070	.1250	.1770	.2210
315.000		.2580	.6810	-.0970	-.1240	-.1790	-.0170						.1620	.1380	.1900

X/LS .9670

AMES 97-707 1A9.02A + S3 + T9 SRM BOOSTER

(R00615)

MACH (1) = 1.555

BETAT (2) = -6.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3560
45.000	.4230
90.000	.3180
135.000	.0890
180.000	.4020
225.000	.1910
270.000	.2800
315.000	.2380

MACH (1) = 1.555

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4880	.3430	.5430	-.1290	-.0580	-.0850	-.0520	.0590	.0280	.0450	.0910	.0380	.2860	.3850	.3680
45.000		.3460	.4330	-.1540	-.0920	.0080							.3550	.4430	.4250
90.000		.2570	.2900	-.2110	-.1540	-.0940	-.1160	-.1050	.0480	.0040	.2060	.1280	.3940	.4080	.3530
135.000		.1630	.1600	-.2590	-.1950	-.1350							.3330	.3320	.1300
180.000	1.4880	.0870	.2160	-.2500	-.2100	-.1870	-.0040	.0680	.0280	.0730	.3110	.0140	-.0470	.1160	.4480
225.000		.0480	.2200	-.3200	-.3130	-.3050	-.0090						.0900	.2240	.3300
270.000		.1200	.7550	.0190	-.3530	-.2870	-.0050	.0950			-.0540	-.0890	.1020	.1180	.1820
315.000		.2470	.6720	-.0950	-.1260	-.1770	-.0220						.1190	.1140	.1910

X/LS .9670

PHI

.000	.3500
45.000	.3970
90.000	.2870
135.000	.1300
180.000	.3760
225.000	.1270
270.000	.2450
315.000	.2420

AMES 97-757 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBO615)

MACH (1) = 1.555

BETAT (4) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4450	.3080	.5190	-.1400	-.0780	-.0980	-.0560	.0260	.0050	.0230	.0540	-.0120	.2910	.4030	.4170
45.000		.2680	.3770	-.1870	-.1380	-.0590							.3310	.4050	.4130
90.000		.1680	.2050	-.2480	-.2030	-.1440	-.1370	-.0230	.0320	-.0180	.1410	.0680	.3380	.3200	.3360
135.000		.1000	.1170	-.2800	-.2130	-.1490							.2590	.3300	.1130
180.000	1.4450	.0250	.1980	-.2600	-.2310	-.1990	-.0030	.0500	-.0130	.0080	.2440	-.0380	.0190	.1400	.4910
225.000		.0060	.2100	-.3220	-.3490	-.3230	-.0180						.0890	.2020	.2620
270.000		.0860	.7540	.0200	-.3470	-.3000	.0180	.0370			.0720	-.0840	.0710	.0460	.1760
315.000		.2260	.6740	-.0910	-.1150	-.1620	.0000						.1330	.1610	.3190

X/LS .9670

PHI

.000	.4370
45.000	.4130
90.000	.2800
135.000	.3320
180.000	.3650
225.000	.0500
270.000	.2360
315.000	.3770

MACH (1) = 1.555

BETAT (5) = 3.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3910	.2700	.4930	-.1520	-.0980	-.1100	-.0180	-.0270	-.0370	.0030	.0450	.0880	.4020	.5560	.5050
45.000		.1790	.2910	-.2230	-.1800	-.1240							.2930	.3720	.3830
90.000		.0760	.1240	-.2830	-.2450	-.1630	-.0750	-.0080	-.0100	-.0330	.1370	.0880	.3110	.2900	.2200
135.000		.0350	.0800	-.2920	-.2120	-.1340							.2580	.3440	.2240
180.000	1.3910	-.0240	.1920	-.2720	-.2320	-.2070	.0120	.0040	-.0110	-.0050	.1930	-.0630	.0640	.1640	.4100
225.000		-.0370	.2240	-.3120	-.3400	-.2980	.0000						.1080	.2500	.1420
270.000		.0600	.7510	.0190	-.3440	-.2690	-.0200	-.0800			.0880	-.0790	.0830	.0970	.2100
315.000		.2140	.6730	-.0900	-.1030	-.1290	.0460						.2680	.3490	.3280

X/LS .9670

PHI

.000	.4900
45.000	.3520
90.000	.2040
135.000	.3430
180.000	.2370

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS15)

MACH (1) = 1.555

BETAT (5) = 3.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0240

270.000 .2670

315.000 .3660

MACH (1) = 1.555

BETAT (6) = 6.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3520 .2570 .4760 -.1590 -.1060 -.1030 -.0270 -.0720 -.0350 .0550 .0720 .0060 .3850 .4900 .5070

45.000 .1510 .2510 -.2360 -.2010 -.1510 .2670 .3650 .3670

90.000 .0480 .1000 -.2990 -.2540 -.1630 -.0320 -.0230 .0290 -.0130 .1040 .0760 .2770 .2950 .1850

135.000 .0150 .0820 -.2920 -.2110 -.1410 .2190 .2910 .3220

180.000 1.3520 -.0400 .1870 -.2710 -.2460 -.2000 -.0080 .0320 .0360 .1300 .1380 -.0890 .0770 .2390 .3600

225.000 -.0500 .2370 -.3060 -.3370 -.2720 -.0220 .1020 .2050 .0430

270.000 .0490 .7570 .0200 -.3470 -.2600 -.0580 -.1460 .0390 .0760 .1690

315.000 .2140 .6610 -.0940 -.0960 -.1030 .0560 .2110 .3130 .4140

X/LS .9670

PHI

.000 .4960

45.000 .3230

90.000 .1750

135.000 .2930

180.000 .1920

225.000 .0000

270.000 .1920

315.000 .4760

MACH (1) = 1.555

BETAT (7) = 8.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3300 .2400 .4660 -.1630 -.1050 -.0970 -.0480 -.0270 .0580 .0220 .0140 -.0250 .3440 .4990 .5030

45.000 .1200 .2150 -.2520 -.2280 -.1800 .2580 .3320 .2960

90.000 .0210 .0730 -.3130 -.2660 -.1590 .0510 -.0140 -.0430 -.0250 .0660 .0290 .2600 .3030 .1500

135.000 -.0070 .0800 -.2960 -.2190 -.1300 .1680 .2410 .3280

180.000 1.3300 -.0540 .1870 -.2730 -.2520 -.0660 -.0110 .1200 .0460 .0820 .0350 -.1240 .0480 .1940 .3400

225.000 -.0510 .2460 -.2980 -.3400 -.2140 -.0480 .0450 .1650 .0060

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO515)

MACH (1) = 1.533

BETAT (7) = 8.580

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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CHI

270.0000	.0520	.7550	.0290	-.3430	-.2320	-.0860	-.1520	.0580	-.0940	.0270	.0760	.1180
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315,000	.2130	.6530	-.0980	-.0810	-.0340	.0520		.1620	.3580	.4250
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X/LS .9670

FBI

.0001 .4670

45.5021 .2450

90,000 ,1640

135.000 .2490

180,000 .1910

225,000 - 9370

270.000 .1180

315.000 ,4710

MACH (2) = 2.000

$$\text{BETAT} (1) = -6.267$$

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.0000	1.7370	.4320	.4430	.0430	.0880	.0310	-.0080	.0240	.0720	.0770	.0950	.0340	.2280	.3500	.3430
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45,000	.4320	.4260	-.0330	.0060	.0950		.3640	.4710	.4700
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90.0000	.3500	.3480	-.0690	-.0470	-.0230	-.0280	-.0250	.0190	.0640	.0770	.2050	.4390	.5200	.4640
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135.000	.2600	.2170	-.1300	-.1110	-.0470		.1790	.3720	.2870
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180.000	1.7370	.1820	.1550	-.1070	-.0510	-.0920	-.1720	-.0430	.1310	.0820	.3220	.2060	.0470	.3410	.1080
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225.000	.1300	.3800	-.1050	-.2250	-.2970	.0240						- .1110	- .0630	- .1150
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270.000	.1730	.9970	.2700	-.1220	-.2330	-.0890	.1130		.1170	-.1060	-.0020	.0630	.2030
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315.000	.3080	.8050	.1060	.0450	-.0660	-.0170		.1500	.1430	.1700
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X/LS .9675

PHI

.000 .3380

45.900 .4360

99.000 .4040

135.000 .1980

180,000 - .0010

225,000	.1700
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270.000 ,2950

315.000 .2270

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS15)

MACH (2) = 2.000

BETAT (2) = -4.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6950	.4020	.4260	.0190	.0720	.0180	-.0180	.0200	.0650	.0670	.0680	.0170	.2430	.3630	.3540
45.000		.3780	.3930	-.0520	-.0170	.0710							.3380	.4430	.4380
90.000		.2900	.3160	-.0920	-.0750	-.0470	-.0480	-.0460	.0240	.0470	.0410	.1690	.4070	.4650	.4200
135.000		.2080	.2030	-.1460	-.1330	-.0590							.1490	.4450	.3090
180.000	1.6950	.1470	.1330	-.1210	-.0650	-.1080	-.1700	.0240	.1260	.0570	.3110	.1540	.0260	.2970	.0810
225.000		.1050	.3520	-.1160	-.2300	-.2980	-.0450						-.0930	-.0110	-.0370
270.000		.1630	.9800	.2670	-.1240	-.2330	-.0750	.1190			.1140	-.0930	.0400	.0870	.1690
315.000		.2980	.7980	.1000	.0410	-.0720	-.0260						.1230	.1180	.1710

X/LS .9670

PHI

.000	.3450
45.000	.4100
90.000	.3650
135.000	.1970
180.000	-.0290
225.000	.2230
270.000	.2580
315.000	.2340

MACH (2) = 2.000

BETAT (3) = -.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5960	.3470	.3870	-.0080	.0500	-.0080	-.0250	.0160	.0290	.0320	.0230	-.0360	.2510	.3650	.3590
45.000		.2890	.3050	-.0930	-.0590	.0250							.2830	.3670	.3680
90.000		.1990	.2110	-.1360	-.1180	-.0900	-.0860	-.0830	.0330	.0170	.0150	.0990	.3140	.3220	.3320
135.000		.1420	.1270	-.1760	-.1620	-.0730							.2250	.5510	.2820
180.000	1.5960	.0920	.0850	-.1350	-.1080	-.1280	-.0380	.0900	.0530	-.0020	.2500	.0810	.0260	.2120	.0570
225.000		.0600	.3170	-.1280	-.2420	-.2330	-.0770						.0270	.1050	.0690
270.000		.1180	.9560	.2610	-.1310	-.2290	-.0960	.1050			.1050	-.0730	.0730	.0490	.1070
315.000		.2660	.7850	.0960	.0400	-.0650	-.0220						.1610	.1840	.2320

X/LS .9670

PHI

.000	.3560
45.000	.3460
90.000	.2890
135.000	.1580
180.000	-.0340

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBOS15)

MACH (2) = 2.000

BETAT (3) = -.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2780

270.000 .1760

315.000 .3160

MACH (2) = 2.000

BETAT (4) = 3.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.5130	.3140	.3820	-.0320	.0290	-.0290	-.0370	.0110	-.0200	.0010	-.0050	-.0570	.2470	.3970	.4390
45.000		.2180	.2320	-.1190	-.0940	-.0330							.2220	.3060	.3040
90.000		.1250	.1370	-.1650	-.1550	-.1230	-.0970	-.0270	.0000	-.0250	.0100	.0690	.2360	.2980	.1740
135.000		.0840	.0780	-.1920	-.1770	-.0770							.1750	.3470	.2530
180.000	1.5130	.0470	.0760	-.1400	-.1010	-.1400	.0460	.0500	-.0100	.0350	.1280	-.0010	.0060	.1570	.0230
225.000		.0300	.2970	-.1200	-.2320	-.2220	-.0650						.0230	.1190	.0560
270.000		.0930	.9350	.2580	-.1290	-.2130	-.0670	.0430			.0740	-.0870	.0260	-.0070	.0930
315.000		.2530	.6780	.1020	.0530	-.0420	-.0050						.1190	.2800	.3570

X/LS .9670

PHI

.000	.4180
45.000	.2850
90.000	.1790
135.000	.1290
180.000	.2760
225.000	.1460
270.000	.1750
315.000	.2800

MACH (2) = 2.000

BETAT (5) = 6.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4630	.2950	.3730	-.0430	.0140	-.0360	-.0400	-.0030	-.0390	.0100	-.0060	-.0830	.2130	.3160	.3800
45.000		.1790	.2010	-.1380	-.1180	-.0700							.2030	.3110	.3240
90.000		.0870	.1020	-.1870	-.1780	-.1430	-.1080	-.0250	-.0340	-.0520	.0060	.0570	.2230	.3320	.2210
135.000		.0540	.0540	-.2050	-.1890	-.0870							.2080	.3510	.2750
180.000	1.4630	.0260	.0500	-.1620	-.1040	-.1550	.0300	.0240	-.0310	.0270	.0850	-.0140	.0200	.1400	.0380
225.000		.0190	.2700	-.1210	-.2240	-.2210	-.0490						-.0290	.0820	.1230

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS15)

MACH (2) = 2.000

BETAT (5) = 6.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000		.0880	.9310	.2460	-.1240	-.2050	-.0500	.0070			.0490	-.1000	.0190	.0400	.0820
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315.000		.2520	.5320	.0910	.0570	-.0290	.0320					.1020	.3510	.3980	
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X/LS .9670

PHI

.000 .3770

45.000 .3320

90.000 .1980

135.000 .1590

180.000 .3170

225.000 .0850

270.000 .1710

315.000 .3510

MACH (2) = 2.000

BETAT (6) = 8.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4160	.2800	.3740	-.0480	-.0040	-.0440	-.0240	-.0070	-.0410	.0130	-.0270	-.0350	.2550	.3970	.4360
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45.000		.1450	.1670	-.1490	-.1320	-.1000							.2650	.3330	.3160
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90.000		.0530	.0650	-.1970	-.1870	-.1550	-.0960	-.0550	-.1010	-.0450	.0290	.0930	.2680	.3650	.2340
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135.000		.0260	.0320	-.2090	-.1900	-.0950							.0950	.3240	.1900
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180.000	1.4160	.0060	.0380	-.1670	-.1170	-.1660	.0160	-.0110	-.0500	.0080	.0980	.0240	-.0720	.0920	.1100
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225.000		.0090	.2680	-.1010	-.2130	-.2390	.0680						-.0520	.0220	.2490
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270.000		.0780	.9290	.2370	-.1190	-.1960	.0540	-.0440			.0240	-.1030	.0400	.0910	.1280
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315.000		.2430	.4930	.1020	.0600	-.0200	.0540						.1700	.4850	.3300
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X/LS .9670

PHI

.000 .4360

45.000 .2840

90.000 .1070

135.000 .1240

180.000 .3030

225.000 .0270

270.000 .2180

315.000 .3550

AMES 97-757 IA9 CEA + S3 + T9 SRM BOOSTER

(RBOS16) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.350

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5090	.4520	.6290	-.1050	-.0080	-.0290	-.0040	.0810	.0810	.0660	.1330	.0570	.2550	.4220	.4170
45.000		.4490	.5560	-.1150	-.0370	.0930							.4330	.5370	.5190
90.000		.3230	.3840	-.1840	-.1220	-.0760	-.0990	-.1020	.0210	.0380	.2960	.1990	.4000	.5080	.4270
135.000		.1750	.1970	-.2510	-.2030	-.1670							.3640	.2960	.1490
180.000	1.5090	.0960	.2140	-.2500	-.2090	-.2110	-.1190	-.0440	.1180	.1840	.4150	.0670	-.0720	.1210	.1020
225.000		.0810	.1420	-.3600	-.3460	-.3320	-.0190						-.0390	.1220	.3000
270.000		.1380	.7250	.0060	-.3420	-.3170	-.0540	.1280			-.0620	-.1180	.1570	.2380	.3110
315.000		.3200	.7290	-.0730	-.0840	-.1300	.0170						.1860	.1890	.2210

X/LS .9670

PHI

.000	.3860
45.000	.4880
90.000	.3580
135.000	.0410
180.000	.4000
225.000	.2210
270.000	.3440
315.000	.2710

MACH (1) = 1.555

BETAT (2) = -6.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4890	.4260	.6170	-.1090	-.0190	-.0400	-.0070	.0740	.0630	.0570	.1130	.0520	.3120	.4410	.4110
45.000		.4150	.5180	-.1320	-.0580	.0440							.4160	.5150	.4890
90.000		.2750	.3320	-.2020	-.1530	-.1070	-.1170	-.1380	.0100	.0010	.2470	.1710	.4290	.4450	.3810
135.000		.1460	.1490	-.2650	-.2150	-.1700							.3570	.3050	.1410
180.000	1.4890	.0690	.1900	-.2550	-.2190	-.2070	-.0920	.0290	.0680	.1240	.3540	.0500	-.0880	.1150	.2880
225.000		.0410	.1230	-.3660	-.3230	-.3240	-.0360						.0300	.1880	.3430
270.000		.1150	.7190	.0050	-.3430	-.2850	-.0620	.1120			-.0680	-.0880	.1410	.1750	.2430
315.000		.3000	.7250	-.0720	-.0840	-.1290	.0020						.1760	.1460	.2170

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1737

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS16)

MACH (1) = 1.555

BETAT (2) = -6.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3860
45.000	.4510
90.000	.3160
135.000	.0370
180.000	.3780
225.000	.1660
270.000	.2910
315.000	.2740

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4670	.4080	.5980	-.1150	-.0320	-.0460	-.0220	.0750	.0370	.0410	.0900	.0670	.3290	.4320	.4100
45.000		.3700	.4790	-.1500	-.0810	.0160							.4110	.4890	.4600
90.000		.2360	.2830	-.2210	-.1710	-.1280	-.1540	-.1570	-.0100	-.0240	.2130	.1450	.3770	.3970	.3360
135.000		.1190	.1190	-.2760	-.2200	-.1670							.3490	.3030	.1390
180.000	1.4670	.0490	.1710	-.2640	-.2270	-.2120	-.0630	.0490	.0370	.1070	.3090	.0270	-.1060	.1260	.3630
225.000		.0150	.1120	-.3740	-.3350	-.3330	-.0430						.0960	.2250	.3170
270.000		.0990	.7170	.0010	-.3450	-.2820	-.0500	.0900			-.0490	-.0780	.1070	.1260	.2060
315.000		.2890	.7230	-.0740	-.0840	-.1270	.0030						.1180	.1150	.2160

X/LS .9670

PHI

.000	.3990
45.000	.4230
90.000	.2780
135.000	.0400
180.000	.3620
225.000	.1370
270.000	.2610
315.000	.2750

AMES 97-707 1A9 02A + S3 + T9 SRM-BOOSTER

(R00616)

MACH (1) = 1.555

BETAT (4) = -.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.0000	1.4240	.3690	.5720	-.1260	-.0500	-.0590	-.0030	.0230	-.0100	.0090	.0460	.0050	.3110	.4590	.4690
45.000		.2920	.3920	-.1830	-.1310	-.0600							.3280	.4110	.4340
90.000		.1490	.1980	-.2590	-.2270	-.1940	-.1870	-.1410	-.0080	-.0310	.1390	.0820	.2690	.3050	.3120
135.000		.0660	.0720	-.2960	-.2340	-.1750							.2170	.3280	.1510
180.000	1.4240	.0080	.1440	-.2780	-.2470	-.2220	-.0180	.0500	.0180	.0220	.2420	-.0200	-.0140	.1480	.4550
225.000		-.0390	.1010	-.3770	-.3640	-.3510	-.0750						.0880	.2330	.1860
270.000		.0650	.7090	.0010	-.3400	-.3530	-.0550	.0420			.0420	-.0780	.0960	.0740	.1960
315.000		.2750	.7190	-.0690	-.0700	-.1040	.0370						.1250	.1710	.3580

X/LS .9670

PHI

.0000	.4910
45.000	.4330
90.000	.2530
135.000	.1890
180.000	.3450
225.000	.0400
270.000	.2420
315.000	.4080

MACH (1) = 1.555

BETAT (5) = 4.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.0000	1.3480	.3220	.5320	-.1420	-.0740	-.0720	-.0030	-.0320	-.0620	-.0170	.0150	.0940	.4270	.5430	.5200
45.000		.2000	.3010	-.2220	-.1800	-.1330							.3110	.3870	.3780
90.000		.0520	.1080	-.2980	-.2720	-.2270	-.1620	-.0490	-.0440	-.0420	.1480	.0920	.2920	.2960	.2060
135.000		.0000	.0430	-.3130	-.2350	-.1550							.2500	.3950	.1880
180.000	1.3480	-.0490	.1250	-.2860	-.2530	-.2310	.0330	.0210	.0140	.0300	.2180	-.0600	.0570	.2330	.3720
225.000		-.0810	.1070	-.3660	-.3680	-.3270	-.1100						.1040	.2560	.1050
270.000		.0360	.6890	-.0020	-.3300	-.3230	-.1110	-.0770			.0830	-.0790	.0660	.1110	.2060
315.000		.2600	.6920	-.0750	-.0520	-.0620	.0720						.2350	.2710	.3210

X/LS .9670

PHI

.0000	.5170
45.000	.3710
90.000	.1960
135.000	.2320
180.000	.2010

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RDS16)

MACH (1) = 1.555

BETAT (5) = 4.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0340

270.000 .2380

315.000 .3670

MACH (1) = 1.555

BETAT (6) = 6.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3280 .3190 .5270 -.1450 -.0680 -.0620 -.0100 -.0600 -.0750 .0490 .0640 .0400 .3970 .5260 .5410

45.000 .1720 .2650 -.2340 -.2070 -.1550 .2940 .3670 .3580

90.000 .0260 .0790 -.3110 -.2800 -.2330 -.0790 -.0680 -.0190 -.0110 .1130 .0760 .2740 .3050 .1740

135.000 -.0120 .0470 -.3130 -.2310 -.1550 .2380 .3140 .2830

180.000 1.3280 -.0660 .1260 -.2900 -.2640 -.2190 .0130 .0160 .0690 .1520 .1610 -.0820 .0810 .2890 .3420

225.000 -.0970 .1100 -.3630 -.3680 -.3050 -.1260 .1030 .2060 .0340

270.000 .0240 .6830 -.0100 -.3300 -.3060 -.1390 .1030 -.0880 .0520 .1090 .1740

315.000 .2590 .6980 -.0790 -.0380 -.0230 .0830 .2270 .3390 .4470

X/LS .9670

PHI

.000 .5270

45.000 .3200

90.000 .1490

135.000 .2380

180.000 .1680

225.000 .0280

270.000 .1770

315.000 .5090

MACH (1) = 1.555

BETAT (7) = 8.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.2970 .3060 .5080 -.1510 -.0650 -.0360 -.0290 -.0720 .0280 .0070 .0000 .0190 .3470 .5120 .5180

45.000 .1400 .2260 -.2540 -.2330 -.1850 .2640 .3210 .2820

90.000 -.0050 .0450 -.3290 -.3020 -.2140 .0000 -.0710 -.0240 -.0300 .0660 .0140 .2490 .2890 .1350

135.000 -.0350 .0440 -.3120 -.2320 -.1470 .1710 .2400 .3290

180.000 1.2970 -.0820 .1280 -.2930 -.2700 -.2100 .0330 .0690 .0450 .1100 .0850 -.1210 .0120 .2540 .3100

225.000 -.0990 .1210 -.3580 -.3760 -.2940 -.1580 .0450 .1880 -.0040

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(R80S16)

MACH (1) = 1.555

BETAT (7) = 8.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000		.0490	.6860	-.0070	-.3320	-.2690	-.1360	-.0140			.0670	-.1160	.0390	.0940	.1160
315.000		.2720	.6890	-.0790	-.0340	.0590	.0730					.2240	.4140	.4690	

X/LS .9670

PHI

.000	.4890
45.000	.2300
90.000	.1080
135.000	.1920
180.000	.1810
225.000	.0100
270.000	.1180
315.000	.5220

MACH (2) = 2.000

BETAT (1) = -8.340

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	.1450	-.0320	-.1160	.0310	.2500	.0200	-.0360	-.0600	-.1960	.0700	-.0280	-.1110	-.1960	-.1970	-.0780
45.000		-.0130	-.0800	.0070	.0900	-.1500							-.1590	-.1900	-.1020
90.000		-.1100	-.1400	.0170	-.0730	-.2020	-.2010	-.0700	-.0240	.0160	-.1600	-.1050	-.2050	-.1880	-.0790
135.000		-.0830	.3560	-.1060	.0730	-.0040							-.1890	-.1930	1.5850
180.000	.1450	-.0480	-.0780	.3040	.1700	-.0490	-.1930	-.0620	.1240	-.0180	-.1560	-.1830	-.1840	-.1590	1.5860
225.000		-.1780	-.0550	-.1090	-.0150	-.0490	.0330						-.1910	-.1730	1.5780
270.000		-.0390	.1320	.0510	-.0030	-.0090	-.0770	-.1940			-.0020	-.1960	-.1840	-.1660	1.2460
315.000		-.0400	.6120	.1750	-.0010	-.0290	-.0730					-.0650	-.0580	1.2450	

X/LS .9670

PHI

.000	.6270
45.000	.9360
90.000	.9390
135.000	.8340
180.000	.6590
225.000	.5000
270.000	.4000
315.000	.4050

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1741

AMES 97-707 1A9 02A + S3 + J9 SRM BOOSTER

(RBOS16)

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7290	.4910	.5370	.0870	.1120	.0640	.0330	.0610	.0860	.1010	.0960	.0370	.2690	.4030	.4030
45.000		.4670	.4720	-.0130	.0350	.1140							.3800	.4820	.4810
90.000		.3320	.3480	-.0680	-.0440	-.0240	-.0500	-.0560	-.0660	.0200	.1290	.2060	.4280	.4770	.4510
135.000		.2210	.2030	-.1440	-.1330	-.0750							.3510	.2880	.2390
180.000	1.7290	.1440	.1700	-.1110	-.0680	-.1020	-.1680	-.0980	.0840	.0550	.2700	.1950	.0940	.3970	.1430
225.000		.0990	.2930	-.1550	-.2680	-.2920	-.0550						-.0570	-.0360	-.0650
270.000		.1690	.9710	.2560	-.1190	-.2060	-.1530	.0740			.1560	-.0950	.0020	.0840	.2130
315.000		.3430	.8660	.1290	.0860	-.0200	.0300						.1910	.1950	.2200

X/LS .9670

PHI

.000	.3900
45.000	.4730
90.000	.3990
135.000	.1630
180.000	.0190
225.000	.1920
270.000	.3100
315.000	.2870

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6800	.4700	.5230	.0740	.0970	.0480	.0230	.0470	.0740	.0800	.0570	.0090	.2850	.4140	.4000
45.000		.4230	.4320	-.0330	.0050	.1000							.3450	.4390	.4430
90.000		.2970	.3060	-.0960	-.0730	-.0520	-.0830	-.0820	-.0830	.0030	.0910	.1690	.3920	.4260	.3980
135.000		.1990	.1690	-.1580	-.1500	-.0840							.1650	.2930	.2190
180.000	1.6800	.1200	.1290	-.1260	-.0850	-.1190	-.1340	-.0220	.0920	.0440	.2620	.1780	.0670	.3310	.1140
225.000		.0760	.2780	-.1590	-.2710	-.2860	-.0960						-.0560	-.0070	-.0120
270.000		.1530	.9630	.2540	-.1200	-.2060	-.1390	.0830			.1440	-.0870	.0460	.1090	.1950
315.000		.3380	.8610	.1270	.0840	-.0230	.0200						.1560	.1610	.2180

X/LS .9670

PHI

.000	.3940
45.000	.4340
90.000	.3590
135.000	.1590
180.000	.0020

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO516)

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000	.2440
270.000	.2680
315.000	.2880

MACH (2) = 2.000

BETAT (4) = -.120

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.5920	.4110	.4800	.0520	.0720	.0230	.0050	.0370	.0320	.0240	.0040	-.0430	.2620	.4080	.4010
45.000		.3220	.3360	-.0740	-.0380	.0240							.2630	.3470	.3500
90.000		.1900	.2060	-.1370	-.1220	-.0950	-.1310	-.1330	-.0120	-.0190	.0500	.1020	.2830	.3530	.2920
135.000		.1180	.1020	-.1840	-.1740	-.0930							.1760	.4880	.2600
180.000	1.5920	.0640	.0780	-.1460	-.1170	-.1430	-.0880	.0500	.0400	.0040	.2190	.0870	.0480	.1950	.0550
225.000		.0310	.2380	-.1750	-.2800	-.2950	-.0370						.0340	.0710	.0550
270.000		.1160	.9400	.2480	-.1290	-.2020	-.1230	.1360			.1350	-.0680	.0880	.0880	.1400
315.000		.3100	.8310	.1200	.0790	-.0180	.0170						.1720	.2130	.2790

X/LS .9670

PHI

.000	.4010
45.000	.3430
90.000	.2690
135.000	.1700
180.000	-.0440
225.000	.2710
270.000	.2190
315.000	.3720

MACH (2) = 2.000

BETAT (5) = 3.990

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4830	.3650	.4510	-.0140	.0410	-.0030	-.0150	.0220	-.0060	-.0020	-.0050	-.0750	.2370	.3900	.4320
45.000		.2360	.2540	-.1170	-.0960	-.0450							.2500	.3190	.3230
90.000		.1050	.1130	-.1820	-.1720	-.1490	-.1730	-.0760	-.0580	-.0740	.0060	.0780	.2360	.3230	.1990
135.000		.0540	.0390	-.2130	-.2000	-.1040							.1340	.3880	.3130
180.000	1.4830	.0150	.0480	-.1630	-.1430	-.1550	.0150	.0480	.0010	.0430	.1610	.0130	.0270	.1780	.0340
225.000		-.0060	.1970	-.1860	-.2480	-.2380	-.1340						.0050	.1340	.0540

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1743

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0616)

MACH (2) = 2.000

BETAT (5) = 3.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000	.0880	.8980	.2240	-.1240	-.1840	-.1470	-.0010				.0870	-.0700	.0330	.0360	.1210
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315.000	.2910	.5880	.1110	.0900	.0010	.0350							.1200	.2620	.3470
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X/LS .9670

PHI

.000 .4150

45.000 .3000

90.000 .1380

135.000 .1690

180.000 .2820

225.000 .1340

270.000 .1750

315.000 .3370

MACH (2) = 2.000

BETAT (6) = 6.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4150	.3400	.4440	-.0270	.0230	-.0090	-.0120	.0090	-.0200	.0030	-.0100	-.1050	.2130	.3340	.3980
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45.000		.1870	.2130	-.1320	-.1130	-.0760							.2310	.3000	.3230
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90.000		.0550	.0770	-.1990	-.1890	-.1710	-.1770	-.0890	-.1010	-.0790	.0020	.0510	.2660	.4430	.2430
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135.000		.0200	.0190	-.2200	-.2060	-.1100							.1720	.4200	.2920
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180.000	1.4150	-.0120	.0280	-.1750	-.1510	-.1650	.0220	.0300	-.0170	.0290	.1140	-.0210	-.0210	.1750	.0190
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225.000		-.0260	.1620	-.1840	-.2770	-.2560	.0260						.0130	.0780	.1390
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270.000		.0720	.8960	.2150	-.1200	-.1750	-.1370	-.0130			.0500	-.0940	.0030	.0540	.0970
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315.000		.2830	.5430	.1230	.0890	.0120	.0740						.1510	.3750	.4270
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X/LS .9670

PHI

.000 .3860

45.000 .3200

90.000 .1810

135.000 .2100

180.000 .2880

225.000 .1170

270.000 .1370

315.000 .3950

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RB0616)

MACH (2) = 2.000

BETAT (7) = 8.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3630	.3210	.4370	-.0360	.0030	-.0110	.0030	.0020	-.0150	.0460	-.0440	-.0060	.2440	.3900	.4740
45.000		.1550	.1770	-.1480	-.1350	-.1060							.2710	.3020	.3110
90.000		.0240	.0380	-.2110	-.2050	-.1930	-.1480	-.1160	-.1490	-.0670	.0490	.0920	.2750	.4300	.2140
135.000		-.0020	-.0060	-.2260	-.2080	-.1110							.0460	.3030	.2030
180.000	1.3630	-.0330	.0100	-.1900	-.1560	-.1770	.0210	-.0070	-.0450	-.0030	.1160	.0140	-.0880	.0700	.1070
225.000		-.0410	.1380	-.1660	-.2630	-.2540	.0700						-.0210	.0360	.2050
270.000		.0720	.8870	.2070	-.1160	-.1670	-.0930	-.0810			.0440	-.1000	.0530	.0700	.1370
315.000		.2750	.4700	.1210	.0890	.0260	.0850						.2670	.4970	.3450

X/LS .9670

PHI

.000	.4720
45.000	.2810
90.000	.1360
135.000	.1790
180.000	.2960
225.000	.0530
270.000	.1960
315.000	.3610

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS17) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.410

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.5090	.0960	.2170	-.2500	-.2070	-.2420	-.3200	-.2440	-.3560	-.1620	-.0860	-.1560	.0560	.0580	-.0450
45.000		.1720	.2100	-.2430	-.2010	-.1220							-.0050	.0500	.0590
90.000		.3290	.3980	-.1820	-.1170	-.0730	-.0570	-.0720	-.2020	-.2050	-.2080	-.2600	-.0300	.2000	.3740
135.000		.4720	.5670	-.1140	-.0300	.0240							-.1640	.1510	.6420
180.000	1.5090	.4640	.6310	-.1010	-.0110	.1240	.2280	.2060	.0180	.1030	.1750	-.0830	-.2660	.0330	.6550
225.000		.3320	.7310	-.0770	-.1000	.1660	.2400						-.0830	.0360	.4340
270.000		.1450	.7400	.0040	-.3670	-.2710	-.1570	-.1780			-.1200	-.2190	.0000	.0110	.0190
315.000		.0900	.1450	-.3620	-.4800	-.4410	-.2940						-.0310	-.0390	.0220

X/LS .9670

PHI

.000	-.0260
45.000	.0760
90.000	.3450
135.000	.5490
180.000	.4820
225.000	.1680
270.000	.1600
315.000	.0080

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4910	.0630	.1920	-.2610	-.2220	-.2560	-.3110	-.2190	-.3390	-.1930	-.1070	-.1510	.0460	.0620	-.0320
45.000		.1410	.1640	-.2620	-.2160	-.1380							-.0190	.0450	.0510
90.000		.2930	.3450	-.2050	-.1500	-.1120	-.0920	-.1310	-.2500	-.2600	-.1710	-.2340	-.0570	.1630	.3480
135.000		.4330	.5260	-.1350	-.0550	.0510							-.1740	.1260	.5920
180.000	1.4910	.4460	.6220	-.1070	-.0180	.1700	.1870	.1650	.0050	.0470	.1240	-.1040	-.2630	.0490	.6050
225.000		.3140	.7360	-.0750	-.0980	.1670	.1960						-.0720	.1010	.3840
270.000		.1170	.7310	-.0010	-.3670	-.2450	-.1780	-.1100			-.1150	-.2170	.0190	-.0360	.0060
315.000		.0450	.1100	-.3790	-.4960	-.4670	-.2360						-.0080	-.0180	.0840

X/LS .9670

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS17)

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	-.0250
45.000	.0660
90.000	.3130
135.000	.4970
180.000	.4290
225.000	.0850
270.000	.1410
315.000	.1010

MACH (1) = 1.555

BETAT (3) = -4.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4650	.0430	.1690	-.2660	-.2300	-.2570	-.3230	-.2600	-.3060	-.2710	-.1530	-.1550	.0050	.0440	-.0620
45.000		.1100	.1230	-.2750	-.2250	-.1340							-.0140	.0330	.0460
90.000		.2400	.2940	-.2220	-.1740	-.1200	-.1420	-.1630	-.2790	-.2830	-.1860	-.2400	-.0110	.1540	.3210
135.000		.3920	.4970	-.1490	-.0760	.0440							-.1920	.0950	.5370
180.000	1.4650	.4230	.6160	-.1070	-.0190	.1720	.1550	.1300	-.0220	.0100	.0990	-.1660	-.2300	.0880	.5600
225.000		.3010	.7420	-.0690	-.0840	.1670	.1630						-.0320	.1470	.3220
270.000		.1040	.7220	-.0020	-.3630	-.2080	-.1930	-.1100			-.0470	-.1830	.0280	-.0970	.0110
315.000		.0090	.0960	-.3800	-.5000	-.4170	-.1970						.0340	.0340	.1190

X/LS .9670

PHI

.000	.0060
45.000	.0710
90.000	.2840
135.000	.4510
180.000	.3900
225.000	.0320
270.000	.1080
315.000	.1910

AMES 97-707 1A9 02A * S3 * T9 SRM BOOSTER

(RBO317)

MACH (1) = 1.555

BETAT (4) = -.180

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4140	-.0080	.1450	-.2800	-.2490	-.2650	-.2160	-.0950	-.0210	-.0520	-.0390	-.1660	-.1510	.0720	-.0940
45.000		.0580	.0710	-.2970	-.2360	-.1410							.0540	.0030	.0570
90.000		.1510	.2000	-.2670	-.2240	-.1620	-.2060	-.2320	-.3370	-.1940	-.1950	-.1650	-.0330	.0870	.2720
135.000		.3100	.4140	-.1830	-.1220	-.0240							-.1500	.0760	.4570
180.000	1.4140	.3840	.6060	-.1130	.0090	.1350	.1110	.0660	-.1090	-.0430	.0200	-.2370	-.2320	.1090	.4870
225.000		.2810	.7580	-.0600	-.0260	.1870	.1200						-.0580	.0820	.1770
270.000		.0670	.6970	-.0130	-.3470	-.1910	-.1860	-.1740			.0340	-.2180	-.0320	-.1140	.0610
315.000		-.0430	.0780	-.3890	-.5040	-.4660	-.2210						-.0170	.1180	.1090

X/LS .9670

PHI

.000	.0190
45.000	.1640
90.000	.3660
135.000	.4270
180.000	.3290
225.000	-.0560
270.000	.1260
315.000	.2730

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3590	-.0540	.1090	-.3050	-.2590	-.2670	-.1080	-.0090	-.0600	-.0470	.0330	-.1170	-.1500	.2580	.2110
45.000		.0020	.0680	-.3100	-.2420	-.1330							.0730	.0400	.1170
90.000		.0600	.1230	-.2960	-.2600	-.1920	-.2390	-.2800	-.2240	-.1830	-.0570	-.1020	.0500	.1200	.2290
135.000		.2140	.3170	-.2180	-.1740	-.0830							.0720	.2100	.4800
180.000	1.3590	.3330	.5520	-.1320	.0520	.0990	.0190	.0170	-.1600	-.1120	-.1180	-.2400	.0560	.3000	.4230
225.000		.2660	.7010	-.0690	.0380	.2110	.0540						.0090	.0730	-.0620
270.000		.0760	.6740	-.0140	-.3290	-.1780	-.1670	-.2150			.0370	-.1960	-.0420	-.1000	.0100
315.000		-.0710	.0820	-.3790	-.4900	-.4800	-.0880						-.0040	.1280	.3070

X/LS .9670

PHI

.000	.2770
45.000	.1240
90.000	.2610
135.000	.3930
180.000	.2880

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RDS017)

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0550

270.000 .1180

315.000 .4000

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.3280	-.0730	.1130	-.3050	-.2650	-.2600	-.0450	-.0120	.0200	.0130	.0310	-.1340	-.0600	.3060	.1930
------	--------	--------	-------	--------	--------	--------	--------	--------	-------	-------	-------	--------	--------	-------	-------

45.000		-.0190	.0620	-.3160	-.2400	-.1170							.1600	.0680	.0620
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90.000		.0260	.0880	-.3100	-.2670	-.2040	-.2650	-.2500	-.2200	-.1570	-.0960	-.0940	.0570	.1060	.1800
--------	--	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	-------	-------	-------

135.000		.1810	.2770	-.2300	-.1730	-.1170							.0300	.0970	.3270
---------	--	-------	-------	--------	--------	--------	--	--	--	--	--	--	-------	-------	-------

180.000	1.3280	.3220	.5450	-.1280	.0660	.0890	-.0120	.0020	-.1730	-.1230	-.0890	-.2420	-.0370	.1130	.4600
---------	--------	-------	-------	--------	-------	-------	--------	-------	--------	--------	--------	--------	--------	-------	-------

225.000		.2680	.7040	-.0650	.1000	.2090	.0340						.0200	.0970	.0010
---------	--	-------	-------	--------	-------	-------	-------	--	--	--	--	--	-------	-------	-------

270.000		.0820	.6750	-.0190	-.3250	-.1690	-.1040	-.2340			.0130	-.2060	-.0520	-.0600	.0460
---------	--	-------	-------	--------	--------	--------	--------	--------	--	--	-------	--------	--------	--------	-------

315.000		-.0770	.1000	-.3710	-.4810	-.4670	-.0530						.0000	.1170	.2840
---------	--	--------	-------	--------	--------	--------	--------	--	--	--	--	--	-------	-------	-------

X/LS .9670

PHI

.000 .3350

45.000 .0350

90.000 .1510

135.000 .3780

180.000 .2950

225.000 -.0730

270.000 .0970

315.000 .3960

MACH (1) = 1.555

BETAT (7) = 8.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.2950	-.0740	.1110	-.2990	-.2700	-.2510	-.0150	.0240	.0190	-.0240	.0360	-.1450	-.0710	.2480	.2870
------	--------	--------	-------	--------	--------	--------	--------	-------	-------	--------	-------	--------	--------	-------	-------

45.000		-.0350	.0450	-.3180	-.2400	-.1150							.0610	.2310	-.0510
--------	--	--------	-------	--------	--------	--------	--	--	--	--	--	--	-------	-------	--------

90.000		.0010	.0650	-.3130	-.2840	-.2340	-.1930	-.1200	-.1820	-.1150	-.0700	-.1240	.0580	.0650	.1490
--------	--	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	-------	-------	-------

135.000		.1610	.2580	-.2440	-.1860	-.1650							-.0090	.0860	.3440
---------	--	-------	-------	--------	--------	--------	--	--	--	--	--	--	--------	-------	-------

180.000	1.2950	.3260	.5600	-.1300	.0940	.0540	-.0380	-.0210	-.1640	-.1060	-.1430	-.2560	.0150	.3080	.3590
---------	--------	-------	-------	--------	-------	-------	--------	--------	--------	--------	--------	--------	-------	-------	-------

225.000		.3610	.6990	-.0630	.1620	.1710	-.0100						-.0250	.1160	-.1290
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DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1749

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS17)

MACH (1) = 1.555

BETAT (7) = 8.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

270.000	.2680	.6500	-.0270	-.3020	-.1970	-.0900	-.1870				-.0270	-.2170	-.0910	-.1060	-.0220
315.000	-.0320	.1100	-.3630	-.4650	-.4470	-.0330							-.0070	.1070	.3590

X/LS .9670

PHI

.000	.4040
45.000	.1410
90.000	.1500
135.000	.2660
180.000	.1960
225.000	-.1730
270.000	.0730
315.000	.3640

MACH (2) = 2.000

BETAT (1) = -8.380

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.7350	.1660	.2020	-.1020	-.0570	-.0940	-.1970	-.1860	-.1620	-.2020	-.1410	-.1160	-.1300	-.3610	-.0580
45.000		.2450	.2210	-.1290	-.1230	-.0590							-.4190	-.4730	.0100
90.000		.3770	.4060	-.0450	-.0230	-.0010	-.0410	-.0210	-.0720	-.1210	-.0970	-.1440	-.4940	-.5240	.1280
135.000		.5100	.5130	.0100	.0690	.0990							-.5660	-.6010	.1550
180.000	1.7350	.5100	.5580	.0860	.1230	.0720	.2200	.2390	.1010	.1120	.2620	.0450	-.5370	-.5450	.1720
225.000		.3580	.8790	.1250	.0700	-.0250	.2800						-.5210	-.3570	-.1400
270.000		.1820	1.0050	.2610	-.1420	-.2080	-.0180	-.0670			.0890	-.0330	-.2560	-.4020	-.0140
315.000		.1070	.3150	-.1540	-.2750	-.3020	-.1220						-.3400	-.0890	-.0390

X/LS .9670

PHI

.000	-.0950
45.000	-.0010
90.000	.1450
135.000	.5690
180.000	.5340
225.000	.0040
270.000	.1390
315.000	-.0440

AMES 97-707 1A9 CEA + S3 + T9 SRM BOOSTER

(RBO517)

MACH (2) = 2.000

BETAT (2) = -6.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7000	.1360	.1710	-.1130	-.0760	-.1120	-.2000	-.2080	-.1730	-.1810	-.1480	-.1380	-.0430	.0320	-.0230
45.000		.2120	.1790	-.1450	-.1410	-.0630							-.0310	.0120	.0110
90.000		.3290	.3430	-.0760	-.0580	-.0360	-.0650	-.0680	-.1090	-.1480	-.1310	-.1750	-.1110	.0620	.0760
135.000		.4680	.4710	-.0140	.0350	.0630							-.0710	.1810	.1120
180.000	1.7000	.4950	.5530	.0780	.1110	.0530	.1880	.2000	.0660	.0780	.1570	-.0030	-.1120	.1170	.2060
225.000		.3450	.8810	.1300	.0750	-.0230	.2070						-.1900	-.0860	-.1510
270.000		.1630	.9930	.2590	-.1440	-.2000	-.0470	-.0790			.0810	-.2480	-.1430	-.0600	.0130
315.000		.0840	.2840	-.1630	-.2800	-.3050	-.1660						-.0620	-.0520	-.0150

X/LS .9670

PHI

.000	-.0540
45.000	-.0020
90.000	.1000
135.000	.5190
180.000	.4820
225.000	.0980
270.000	.1480
315.000	-.0230

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	.0000	.0000	.0000	-.1280	-.0930	-.1290	-.2020	-.2230	-.1910	-.1770	-.1490	-.1370	-.0310	.0180	-.0570
45.000		.0000	.0000	-.1620	-.1530	-.0670							-.0250	-.0040	.0130
90.000		.0000	.0000	-.0980	-.0800	-.0630	-.0750	-.1030	-.1360	-.1680	-.1670	-.2010	-.0650	.0250	.0300
135.000		.0000	.4240	-.0350	.0070	.0380							-.1040	.1230	.0550
180.000	.0000	.0000	.5230	.0660	.0950	.0350	.1390	.1570	.0360	.0390	.1020	-.0400	-.1330	.0780	.1740
225.000		.0000	.9110	.1340	.0650	-.0330	.1900						-.1320	-.0400	-.0530
270.000		.0000	1.0010	.2560	-.1500	-.2020	-.0530	-.0980			.0800	-.1920	-.0570	.0230	.0510
315.000		.0000	.2610	-.1740	-.2890	-.3090	-.1830						-.0230	-.0060	.0630

X/LS .9670

PHI

.000	-.0820
45.000	.0000
90.000	.0790
135.000	.4760
180.000	.4430

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1751

AMES 97-707 1A9 CCA + S3 + I9 SRM BOOSTER

(RBOS17)

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .1550

270.000 .1140

315.000 .0740

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000	1.5480	.0450	.0780	-.1460	-.1300	-.1520	-.1950	-.1820	-.2010	-.1530	-.1280	-.1170	-.1140	.2110	-.1030
45.000		.1000	.0840	-.1890	-.1800	-.0820							.0010	.0200	-.0180
90.000		.1700	.1910	-.1430	-.1290	-.1070	-.1200	-.1660	-.2270	-.1830	-.1200	-.1880	-.0670	.0050	.0230
135.000		.3130	.3290	-.0780	-.0440	-.0220							-.1790	.0020	-.0500
180.000	1.5480	.4090	.4700	.0530	.0670	.0240	.0710	.0880	.0050	-.0160	.0340	-.1150	-.1840	-.0070	.2960
225.000		.3060	.8970	.1250	.0600	.0140	.1290						-.0910	.0110	.1490
270.000		.1100	.9740	.2440	-.1530	-.1930	-.0850	-.0600			.0230	-.1270	-.0220	-.0540	.0080
315.000		.0130	.2250	-.1870	-.2960	-.3170	-.2400						-.0130	.0830	.0670

X/LS .9670

PHI

.000	-.1360
45.000	-.0260
90.000	.0350
135.000	.3680
180.000	.4110
225.000	.2560
270.000	.1210
315.000	.1290

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000	1.4600	.0060	.0510	-.1460	-.1500	-.1680	-.1520	-.0710	.0090	-.0240	-.0360	-.0770	-.1090	.1950	.2170
45.000		.0500	.0390	-.2060	-.1960	-.0940							-.0340	.1070	-.0950
90.000		.1000	.1160	-.1760	-.1640	-.1470	-.1830	-.2310	-.1970	-.1610	-.1270	-.1440	-.0500	-.0250	-.0370
135.000		.2430	.2600	-.1080	-.0760	-.0690							-.0870	-.0420	.1130
180.000	1.4600	.3680	.4950	.0150	.0430	.2110	.0210	.0770	-.0290	-.0390	.0190	-.1810	-.2050	-.0810	.2880
225.000		.2840	.7840	.1060	.0760	.2580	.0780						-.1070	-.0030	.1490

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS17)

MACH (2) = 2.000

BETAT (5) = 3.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

270.000	.0770	.9090	.2300	-.1470	-.1380	-.1080	-.0150				-.0100	-.1640	-.0540	-.0150	.0290
315.000	-.0190	.2060	-.1850	-.2900	-.3160	-.2500							-.0730	.0240	.0330

X/LS .9670

PHI

.000	.1740
45.000	-.1130
90.000	.0470
135.000	.2300
180.000	.3050
225.000	.0540
270.000	.1490
315.000	.0730

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.4200	-.0100	.0420	-.1540	-.1530	-.1730	-.1090	-.0350	.0010	-.0290	-.0360	-.0750	-.1030	.2050	.1850
45.000		.0270	.0240	-.2110	-.1980	-.0990							-.1170	.1410	.1620
90.000		.0640	.0850	-.1900	-.1770	-.1670	-.2170	-.2410	-.2010	-.1810	-.1010	-.1430	-.0710	.0220	-.0140
135.000		.2070	.2310	-.1140	-.0930	-.0670							-.0880	-.0070	.0860
180.000	1.4200	.3550	.5340	-.0030	.0340	.2130	-.0040	.0530	-.0390	-.0430	-.0110	-.2040	-.1420	-.0130	.2220
225.000		.2820	.5920	.1000	.0850	.2520	.0700						-.1190	.0140	.2020
270.000		.0740	.8830	.2210	-.1420	-.0810	-.1190	-.0150			-.0090	-.1870	-.0740	-.0500	.0590
315.000		-.0270	.1940	-.1820	-.2860	-.3110	-.2490						-.1210	-.0120	-.0140

X/LS .9670

PHI

.000	.2400
45.000	-.0290
90.000	.1860
135.000	.1610
180.000	.2030
225.000	.0490
270.000	.1740
315.000	.3680

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1733

AMES 97-707 1A9 O2A + S3 + T9 SRM BOOSTER

(RBO617)

MACH (2) = 2.000

BETAT (7) = 8.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3660	-.0270	.0180	-.2000	-.1680	-.1750	-.0830	-.0130	-.0200	-.0290	-.0010	-.0420	-.0540	.2510	.2010
45.000		.0030	.0030	-.2250	-.2090	-.0970							-.1040	.1730	.1830
90.000		.0330	.0470	-.2130	-.2020	-.1870	-.2190	-.2090	-.2000	-.1760	-.0470	-.1070	.0120	.0880	.0900
135.000		.1740	.1970	-.1370	-.1260	-.0570							-.0710	-.0560	.1580
180.000	1.3660	.3390	.4890	-.0230	.0320	.2120	.0220	.0320	-.0600	-.0900	-.0480	-.1860	-.0690	.0660	.2940
225.000		.2770	.4520	.0820	.1020	.2400	.0800						-.1010	-.0240	.0220
270.000		.0650	.8320	.1910	-.1290	-.0590	-.1450	-.0370			-.0080	-.1790	-.0780	-.0860	.0540
315.000		-.0410	.1440	-.1850	-.2760	-.3010	-.2400						-.1550	-.0680	-.0610

X/LS .9670

PHI	
.000	.1860
45.000	.0760
90.000	.0210
135.000	.1740
180.000	.2520
225.000	-.0730
270.000	.1860
315.000	.4590

AMES 97-707 IA9 CEA + S3 + T9 SRM BOOSTER

(RBOS18) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555 BETAT (1) = -8.340

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5430	.1610	.3080	-.2220	-.1700	-.1990	-.2490	-.0800	-.0550	-.0630	-.0130	-.1020	.0420	.0880	.0450
45.000		.2600	.2920	-.2080	-.1500	-.0410							.0400	.2100	.2000
90.000		.3700	.4100	-.1690	-.0980	-.0290	-.0180	.0120	-.0970	-.0940	.0080	-.0860	.0740	.3000	.2650
135.000		.4100	.4930	-.1360	-.0670	-.0030							-.0220	.2390	.5640
180.000	1.5430	.3470	.5280	-.1390	-.0700	-.1030	.1960	.2290	.0270	.0810	.2220	-.0460	-.2120	.0460	.6510
225.000		.2520	.6230	-.1320	-.1870	-.2380	.2310						-.0570	.0410	.4370
270.000		.1790	.8230	.0380	-.3860	-.3590	-.1610	-.1570			-.0630	-.2010	.0420	.0240	.0830
315.000		.1350	.3290	-.2720	-.3780	-.2490	-.0710						.0620	-.0070	.0620

X/LS .9670

PHI

.000 .0180
 45.000 .2050
 90.000 .4120
 135.000 .5530
 180.000 .5110
 225.000 .2350
 270.000 .1820
 315.000 .0940

MACH (1) = 1.555

BETAT (2) = -6.500

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5200	.1270	.2880	-.2270	-.1810	-.2130	-.2290	-.0550	-.0480	-.0690	-.0360	-.1300	.0260	.0830	.0510
45.000		.2200	.2410	-.2240	-.1660	-.0600							.0450	.2010	.1910
90.000		.3180	.3570	-.1900	-.1250	-.0620	-.0010	-.0420	-.1390	-.0810	-.0060	-.0910	.0720	.2740	.2390
135.000		.3650	.4490	-.1480	-.0870	-.0350							-.0220	.2250	.5540
180.000	1.5200	.3190	.5130	-.1450	-.0820	-.1140	.1570	.1960	.0040	.0530	.1790	-.0460	-.2010	.0980	.6440
225.000		.2250	.6210	-.1300	-.1910	-.2270	.1900						-.0140	.1000	.4430
270.000		.1490	.8150	.0340	-.3890	-.4130	-.1810	-.0960			-.0020	-.1660	.0550	-.0170	.0900
315.000		.1020	.3100	-.2780	-.3890	-.2650	-.1050						.0940	.0290	.0920

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1755

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBO618)

MACH (1) = 1.555

BETAT (2) = -6.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.0340
45.000	.1830
90.000	.3800
135.000	.5150
180.000	.4570
225.000	.1370
270.000	.2070
315.000	.1440

MACH (1) = 1.555

BETAT (3) = -4.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4970	.1070	.2730	-.2280	-.1930	-.2170	-.1990	-.0390	-.0420	-.0750	-.0430	-.1210	.0330	.0830	.0730
45.000		.1890	.2070	-.2370	-.1810	-.0650							.0880	.2260	.1970
90.000		.2730	.3080	-.2130	-.1480	-.0780	-.0340	-.0600	-.1720	-.0820	-.0380	-.1010	.0850	.2760	.2290
135.000		.3250	.4050	-.1660	-.1040	-.0530							-.0340	.2100	.5450
180.000	1.4970	.2950	.4980	-.1480	-.0870	.0170	.0870	.1720	-.0410	.0000	.1610	-.0930	-.1130	.1160	.6230
225.000		.2120	.6230	-.1280	-.1850	.0050	.1560						.0200	.1420	.3990
270.000		.1250	.8100	.0330	-.3840	-.4090	-.2160	.0000			.0390	-.1510	.0740	-.0450	.0910
315.000		.0780	.3010	-.2830	-.3920	-.3290	-.1480						.1660	.0760	.0510

X/LS .9670

PHI

.000	.0700
45.000	.1910
90.000	.3710
135.000	.4770
180.000	.4140
225.000	.0860
270.000	.1880
315.000	.1250

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO018)

MACH (1) = 1.555

BETAT (4) = -.160

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4540	.0630	.2390	-.2370	-.2120	-.2270	-.1240	.0110	-.0270	-.0710	-.0400	-.1250	.0460	.1040	.1260
45.000		.1270	.1540	-.2640	-.2060	-.0880							.1010	.2030	.1900
90.000		.1910	.2120	-.2530	-.1960	-.1120	-.0810	-.0990	-.1100	-.1110	-.0510	-.0870	.1230	.2440	.2080
135.000		.2500	.3450	-.2000	-.1420	-.0360							-.0220	.1540	.4970
180.000	1.4540	.2550	.4710	-.1510	-.0970	.0560	-.0600	.0900	-.1090	-.0620	.1020	-.1230	-.1200	.0600	.5570
225.000		.1890	.6290	-.1150	-.1540	.0420	.0530						-.0100	.1060	.2780
270.000		.0990	.7850	.0290	-.3630	-.2980	-.2910	-.0770			.0710	-.1830	-.0070	-.0500	.0990
315.000		.0400	.2950	-.2780	-.3830	-.3850	-.1560						.0960	.1450	.1390

X/LS .9670

PHI

.000	.1350
45.000	.3180
90.000	.4580
135.000	.5050
180.000	.3510
225.000	-.0250
270.000	.1740
315.000	.1890

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3940	.0220	.2130	-.2640	-.2310	-.2390	-.0170	.0120	-.0360	-.0380	.0560	-.1080	.1490	.3210	.2670
45.000		.0620	.1280	-.2770	-.2110	-.1000							.1610	.1950	.2080
90.000		.1050	.1630	-.2790	-.2230	-.1150	-.1150	-.0850	-.0870	-.1080	.0380	-.0170	.1490	.2260	.3000
135.000		.1630	.2830	-.2270	-.1820	-.0900							.1080	.2570	.4460
180.000	1.3940	.2160	.4540	-.1660	-.1190	.0610	-.0300	.0110	-.1360	-.0890	-.0470	-.1370	.0250	.3680	.4490
225.000		.1700	.6260	-.1150	-.1390	.0840	.0150						.0490	.2110	.0590
270.000		.0770	.7700	.0230	-.3580	-.2670	-.2690	-.0710			.0350	-.1460	-.0060	-.0080	.1020
315.000		.0100	.2880	-.2790	-.3770	-.3230	-.1200						.0590	.2220	.2140

X/LS .9670

PHI

.000	.2740
45.000	.2280
90.000	.3310
135.000	.3800
180.000	.2760

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1757

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R00618)

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0110

270.000 .1000

315.000 .3800

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3640 .0050 .2050 -.2640 -.2310 -.2410 .0140 .0000 -.0020 .0270 .0470 -.1220 .1070 .3010 .3110

45.000 .0400 .1160 -.2830 -.2150 -.0970 .0000 .0000 -.0020 .0270 .0470 -.1220 .1070 .3010 .3110

90.000 .0700 .1190 -.2870 -.2320 -.0890 -.1320 -.0310 -.0180 -.0660 .0130 -.0450 .1280 .2060 .2700

135.000 .1300 .2510 -.2400 -.1940 -.0940 .0000 .0000 -.0020 .0270 .0470 -.1220 .1070 .3010 .3110

180.000 1.3640 .1920 .4540 -.1650 -.0890 .0510 -.0790 -.0220 -.1470 -.0070 .0180 -.2190 .0160 .1650 .4050

225.000 .1580 .6360 -.1030 -.1150 .1100 -.0300 .0000 .0000 -.0020 .0270 .0470 -.1220 .1070 .3010 .3110

270.000 .0650 .7770 .0260 -.3550 -.2110 -.1780 -.0810 .0520 -.1730 -.0090 -.0120 .0810 .0810 .0810 .0810

315.000 -.0020 .2980 -.2710 -.3690 -.2600 -.0750 .0000 .0000 -.0020 .0270 .0470 -.1220 .1070 .3010 .3110

X/LS .9670

PHI

.000 .4040

45.000 .2070

90.000 .2520

135.000 .3490

180.000 .2730

225.000 -.0650

270.000 .1100

315.000 .3900

MACH (1) = 1.555

BETAT (7) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.3410 -.0100 .2050 -.2620 -.2330 -.2420 .0480 .0360 .0320 -.0010 .0090 -.1190 .0670 .2740 .3680

45.000 .0190 .1060 -.2810 -.2180 -.0970 .0000 .0000 -.0020 .0270 .0470 -.1220 .1070 .3010 .3110

90.000 .0450 .1030 -.2970 -.2420 -.0880 -.0070 .0330 -.0670 -.0710 .0240 -.0590 .1090 .1450 .2370

135.000 .1140 .2210 -.2480 -.2170 -.1290 .0000 .0000 -.0020 .0270 .0470 -.1220 .1070 .3010 .3110

180.000 1.3410 .1930 .4440 -.1620 -.0070 .0250 -.1170 -.0140 -.1040 -.0480 -.0860 -.2140 .0390 .2760 .3620

225.000 .1690 .6440 -.0930 -.0600 .1360 -.0750 .0000 .0000 -.0020 .0270 .0470 -.1220 .1070 .3010 .3110

AMES 97-707 IAG 02A + S3 + T9 SRM BOOSTER

(RBOS18)

MACH (1) = 1.555

BETAT (7) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000	.0950	.7810	.0300	-.3470	-.2000	-.1290	-.0200				.0020	-.1860	-.0690	-.0730	.0150
315.000	.0150	.3140	-.2570	-.3550	-.2040	-.0990						.0220	.1810	.3380	

X/LS .9670

PHI

.000	.4450
45.000	.2760
90.000	.2220
135.000	.2850
180.000	.1950
225.000	-.1970
270.000	.0620
315.000	.3720

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7640	.2170	.2050	-.0830	-.0220	-.0620	-.1550	-.0560	-.0650	-.0430	-.0490	-.0770	.0420	.0860	.0360
45.000		.3010	.2910	-.0980	-.0800	.0190							.0530	.1900	.1770
90.000		.3910	.4120	-.0360	-.0110	.0100	.0180	.0410	.0190	-.0480	-.0490	-.0620	.0050	.2410	.2710
135.000		.4370	.4380	-.0290	.0130	.0830							.0220	.3140	.2020
180.000	1.7640	.3990	.4040	.0160	.0750	.0210	.1350	.2260	.1130	.1280	.2900	.0920	-.0660	.2120	.0550
225.000		.2800	.7770	.0790	-.0120	-.1080	.1420						-.1760	-.0650	-.1200
270.000		.1900	1.0580	.2850	-.1570	-.2560	-.0390	-.0660			.0720	-.2340	-.1040	-.0300	.1070
315.000		.1570	.4820	-.0680	-.1920	-.2230	-.0280						.0320	.0070	.0490

X/LS .9670

PHI

.000	.0180
45.000	.1620
90.000	.2710
135.000	.1400
180.000	.4810
225.000	.0580
270.000	.1740
315.000	.0560

AMES 97-707 IA9 Q2A + S3 + I9 SRM BOOSTER

(RBO618)

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7310	.1980	.1850	-.0960	-.0350	-.0790	-.1580	-.0740	-.0530	-.0390	-.0470	-.0840	.0180	.0610	.0280
45.000		.2790	.2540	-.1160	-.1040	.0050							.0500	.1780	.1650
90.000		.3540	.3610	-.0650	-.0440	-.0230	.0000	.0220	-.0110	-.0670	-.0840	-.0980	.0330	.2620	.2500
135.000		.4060	.3980	-.0500	-.0090	.0520							-.0100	.2720	.1620
180.000	1.7310	.3820	.3950	.0010	.0660	-.0020	.1740	.1910	.0840	.0940	.2430	.0500	-.0860	.1690	.0370
225.000		.2720	.7910	.0850	-.0120	-.1130	.1090						-.1640	-.0630	-.0870
270.000		.1750	1.0610	.2860	-.1600	-.2550	-.0950	-.0850			.0860	-.2240	-.0620	.0280	.1310
315.000		.1400	.4650	-.0720	-.1990	-.2350	-.0570						.0360	.0350	.0230

X/LS .9670

PHI

.000	.0380
45.000	.1580
90.000	.2320
135.000	.1180
180.000	.4390
225.000	.1560
270.000	.2040
315.000	.0540

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6970	.1720	.1640	-.1040	-.0540	-.0930	-.1600	-.0790	-.0300	-.0350	-.0480	-.0890	.0110	.0540	.0480
45.000		.2360	.2180	-.1280	-.1170	-.0110							.0450	.1650	.1630
90.000		.3010	.3090	-.0860	-.0700	-.0520	-.0180	.0010	-.0330	-.0970	-.1140	-.0620	.0160	.2280	.2220
135.000		.3590	.3560	-.0720	-.0310	.0330							-.0510	.2120	.1340
180.000	1.6970	.3580	.3730	-.0070	.0410	-.0120	.1440	.1600	.0550	.0550	.1720	.0070	-.1090	.1210	.0120
225.000		.2610	.7640	.0780	-.0210	-.1200	.1120						-.1100	-.0180	-.0190
270.000		.1620	1.0470	.2830	-.1650	-.2580	-.0940	-.1000			.0730	-.1640	.0100	.0550	.1070
315.000		.1220	.4370	-.0810	-.2080	-.2490	-.0640						.0420	.0400	-.0240

X/LS .9670

PHI

.000	.0590
45.000	.1530
90.000	.1960
135.000	.1710
180.000	.4110

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS18)

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2110

270.000 .1720

315.000 .0540

MACH (2) = 2.000

BETAT (4) = -.160

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6010	.1140	.1230	-.1160	-.0960	-.1180	-.1490	-.0380	.0050	-.0290	-.0620	-.0730	.0390	.0730	.0840
45.000		.1570	.1570	-.1580	-.1430	-.0340							.0560	.1370	.1660
90.000		.2020	.2220	-.1290	-.1100	-.0820	-.0380	-.0490	-.0930	-.1160	-.0670	-.0870	.0440	.2010	.1760
135.000		.2620	.2770	-.1030	-.0690	-.0180							-.0860	.1490	.0640
180.000	1.6010	.2960	.3290	-.0380	.0160	-.0370	.0730	.1060	.0070	-.0210	.0720	-.0740	-.1550	.0530	.0110
225.000		.2260	.7240	.0690	-.0150	-.1060	.1030						-.0700	.0500	.0490
270.000		.1220	.9850	.2730	-.1640	-.2510	-.0990	-.1120			-.0470	-.1300	.0110	-.0290	.0210
315.000		.0800	.3910	-.0880	-.2090	-.2550	-.1100						.0020	.1160	.0620

X/LS .9670

PHI

.000 .0890

45.000 .1660

90.000 .1440

135.000 .2600

180.000 .4140

225.000 .2340

270.000 .1670

315.000 .1480

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1)SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5290	.0830	.1130	-.1400	-.0940	-.1410	-.1310	.0130	.0120	-.0180	-.0220	-.0420	-.0160	.1870	.1700
45.000		.1090	.1060	-.1770	-.1620	-.0550							-.0100	.2610	.1830
90.000		.1440	.1500	-.1610	-.1460	-.1080	-.0350	-.0850	-.0940	-.0850	-.0550	-.0690	.0510	.1220	.1150
135.000		.2100	.2140	-.1310	-.1020	-.0650							-.0010	.0740	.0080
180.000	1.5290	.2740	.3200	-.0320	.0030	-.0420	.0050	.0370	-.0570	-.0760	.0630	-.1440	-.1630	-.0250	.2960
225.000		.2190	.7090	.0770	.0030	-.0630	.0710						-.0710	.0320	.0620

PHI

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBCS18)

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1090	.9540	.2750	-.1500	-.2360	-.1120	-.1300			.0260	-.1580	-.0250	-.0240	.0380
315.000		.0640	.3840	-.0800	-.1960	-.2460	-.1720						-.0540	.0560	.0240

X/LS .9670

PHI

.000	.1590
45.000	.1530
90.000	.0910
135.000	.2530
180.000	.3010
225.000	.0830
270.000	.1730
315.000	.2330

MACH (2) = 2.000

BETAT (6) = 5.960

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4740	.0580	.0890	-.1430	-.1040	-.1470	-.1020	.0170	.0010	-.0170	-.0200	-.0360	.0020	.1980	.1980
45.000		.0750	.0800	-.1840	-.1650	-.0720							.0660	.4000	.3140
90.000		.1010	.1120	-.1720	-.1650	-.1220	-.0470	-.0950	-.0600	-.1090	-.0540	-.0650	.0590	.1430	.1760
135.000		.1660	.1830	-.1420	-.1170	-.0950							-.0120	.0330	.2110
180.000	1.4740	.2480	.3070	-.0350	-.0020	-.0490	-.0250	-.0020	-.0790	-.0820	.0240	-.1640	-.0910	.0050	.2980
225.000		.2100	.6910	.0710	.0080	.0120	.0550						-.0460	.0360	.1190
270.000		.0950	.9350	.2720	-.1410	-.2310	-.1140	-.1330			.0110	-.1720	-.0500	-.0670	.0760
315.000		.0500	.3790	-.0740	-.1860	-.2490	-.1620						-.1110	-.0130	.0930

X/LS .9670

PHI

.000	.1880
45.000	.2840
90.000	.1960
135.000	.2950
180.000	.2310
225.000	.0490
270.000	.2090
315.000	.5450

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS18)

MACH (2) = 2.000

DETAY (7) = 8.010

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4250	.0330	.0580	-.1470	-.1180	-.1600	-.0870	.0070	-.0140	-.0070	.0200	-.0030	.0230	.2290	.2060
45.000		.0420	.0500	-.1980	-.1790	-.0810							.1520	.3780	.2940
90.000		.0630	.0740	-.1900	-.1800	-.1350	-.0630	-.0970	-.0860	-.1610	-.0210	-.0540	.0850	.1620	.0560
135.000		.1280	.1430	-.1600	-.1300	-.1220							.0370	.0680	.2010
180.000	1.4250	.2280	.3820	-.0510	-.0220	.0670	-.0360	-.0380	-.1010	-.1020	-.0120	-.1190	-.0340	.1470	.3620
225.000		.2020	.5720	.0640	.0150	.1570	.1000						-.0470	.0380	-.0360
270.000		.0830	.9010	.2590	-.1330	-.2110	-.1290	-.0970			-.0010	-.1750	-.0570	-.0400	.0790
315.000		.0360	.3780	-.0730	-.1820	-.2400	-.1420						-.1490	-.1080	.2600

X/LS .9670

PHI	
.000	.2070
45.000	.2150
90.000	.0330
135.000	.2230
180.000	.1880
225.000	-.0760
270.000	.0330
315.000	.5430

AMES 97-757 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS19) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 DREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.320

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.5510	.2360	.4130	-.1740	-.1210	-.1490	-.1210	.0050	.0320	.0050	.0330	-.0510	.0990	.2050	.1620
45.000		.3360	.3970	-.1670	-.1020	.0180							.2200	.3710	.3210
90.000		.3790	.3970	-.1630	-.0880	-.0170	-.0240	.0540	.0670	.0230	.1450	.0600	.2740	.4330	.3510
135.000		.3360	.3910	-.1730	-.1010	-.0460							.1730	.3020	.1300
180.000	1.5510	.2410	.4140	-.1750	-.1220	-.1550	.1440	.2010	.0360	.0770	.3080	-.0050	-.1240	.0750	.5120
225.000		.1890	.4870	-.1920	-.2720	-.3230	.1890						-.0660	.0560	.3590
270.000		.1880	.8360	.0520	-.3770	-.3500	.0260	-.1570			-.0630	-.1710	.0830	.0890	.1700
315.000		.1910	.4890	-.1870	-.2710	-.3130	.0190						.0760	.0520	.0860

X/LS .9670

PHI

.000	.1260
45.000	.2980
90.000	.2960
135.000	.4400
180.000	.5260
225.000	.2860
270.000	.2300
315.000	.1550

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.5280	.2110	.3910	-.1860	-.1300	-.1620	-.1010	.0180	.0290	-.0050	.0140	-.0520	.1420	.2330	.1910
45.000		.2900	.3400	-.1800	-.1190	-.0060							.2170	.3650	.3090
90.000		.3300	.3510	-.1870	-.1150	-.0430	-.0350	.0120	.0460	.0050	.1250	.0580	.2670	.4160	.3250
135.000		.3000	.3370	-.1830	-.1200	-.0630							.1570	.2840	.1090
180.000	1.5280	.2180	.3980	-.1830	-.1330	-.1660	.1210	.1840	.0210	.0410	.2780	-.0010	-.1320	.0690	.5570
225.000		.1630	.4900	-.1920	-.2790	-.3270	.1570						.0190	.1160	.4560
270.000		.1580	.8370	.0530	-.3790	-.3550	-.0090	-.1780			-.0430	-.1400	.0820	.0680	.1160
315.000		.1610	.4790	-.1910	-.2780	-.3200	-.0010						.0760	.0450	.0990

X/LS .9670

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS19)

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.1700
45.000	.2830
90.000	.2540
135.000	.4440
180.000	.4840
225.000	.2220
270.000	.2130
315.000	.1770

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5050	.1870	.3810	-.1920	-.1410	-.1750	-.0970	.0220	.0200	-.0110	.0100	-.0630	.1640	.2530	.2180
45.000		.2550	.2960	-.1960	-.1380	-.0230							.2330	.3700	.3250
90.000		.2850	.3000	-.2090	-.1420	-.0560	-.0610	-.0070	.0330	-.0130	.0850	.0560	.2660	.4020	.2990
135.000		.2630	.2970	-.1910	-.1360	-.0720							.1450	.2700	.0960
180.000	1.5050	.1950	.3910	-.1870	-.1410	-.1730	.0550	.1750	-.0070	.0460	.2360	-.0240	-.0860	.1210	.5760
225.000		.1440	.4860	-.1920	-.2750	-.3240	.1110						.0580	.1630	.4180
270.000		.1390	.8330	.0520	-.3750	-.3540	-.0580	-.1080			.0220	-.1070	.1000	.0060	.1260
315.000		.1400	.4710	-.1920	-.2790	-.3220	-.0120						.0910	.0500	.0920

X/LS .9670

PHI

.000	.1790
45.000	.2830
90.000	.2300
135.000	.4330
180.000	.4440
225.000	.1460
270.000	.2010
315.000	.1860

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS19)

MACH (1) = 1.555

BETAT (4) = -.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4620	.1490	.3510	-.2010	-.1600	-.1930	-.0630	.0320	.0090	-.0070	.0120	-.0960	.1330	.2390	.2490
45.000		.1870	.2310	-.2170	-.1710	-.0570							.2180	.3210	.3310
90.000		.2020	.2080	-.2490	-.1840	-.0790	-.0170	-.0240	.0200	-.0520	.0730	.0420	.2550	.3650	.2570
135.000		.1940	.2350	-.2110	-.1660	-.1020							.1190	.2250	.2700
180.000	1.4620	.1550	.3690	-.1890	-.1510	-.0560	-.0350	.1240	-.0780	.0060	.1750	-.0830	-.0710	.0950	.5610
225.000		.1110	.4870	-.1840	-.2610	-.1000	-.0280						.0390	.1550	.3230
270.000		.1070	.8180	.0500	-.3590	-.2710	-.1360	-.0690			.0360	-.1350	.0630	.0050	.1510
315.000		.1060	.4720	-.1880	-.2680	-.3110	-.0150						.0590	.0700	.1710

X/LS .9670

PHI

.000	.2920
45.000	.3450
90.000	.3280
135.000	.5200
180.000	.3590
225.000	.0900
270.000	.2030
315.000	.2660

MACH (1) = 1.555

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4120	.1090	.3200	-.2130	-.1770	-.2070	-.0010	.0120	-.0170	-.0200	.0660	-.0580	.1970	.3280	.3800
45.000		.1110	.1990	-.2460	-.1970	-.0890							.2800	.3730	.3350
90.000		.1140	.1440	-.2750	-.1900	-.0960	-.0350	.0290	-.0070	-.0530	.1260	.0740	.2160	.2760	.2420
135.000		.1170	.2460	-.2410	-.1830	-.1240							.1560	.2080	.4370
180.000	1.4120	.1090	.3490	-.2040	-.1680	-.0460	-.0030	.0440	-.0900	-.0540	.0850	-.0960	.0300	.3210	.4280
225.000		.0880	.4970	-.1730	-.2460	-.0370	.0350						.0840	.2910	.1870
270.000		.0900	.8200	.0500	-.3600	-.1860	-.0340	-.0190			.0430	-.1210	.0560	.0990	.2160
315.000		.0860	.4640	-.1860	-.2620	-.2930	.0220						.1160	.2020	.3670

X/LS .9670

PHI

.000	.3960
45.000	.3060
90.000	.2730
135.000	.3490
180.000	.2730

AMES 97-707 1A9 ORA + S3 + T9 SRM BOOSTER

(RBOS19)

MACH (1) = 1.555

DETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0080

270.000 .2580

315.000 .3730

MACH (1) = 1.555

DETAT (6) = 5.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3880	.0880	.3130	-.2160	-.1840	-.2050	-.0010	-.0140	.0060	.0350	.0520	-.0000	.1790	.3370	.4320
45.000		.0860	.1840	-.2600	-.2060	-.0960							.2640	.3390	.3160
90.000		.0890	.1190	-.2790	-.2020	-.0940	-.0380	.0300	.0450	-.0030	.0840	.0220	.1820	.2540	.2390
135.000		.0920	.2070	-.2500	-.1990	-.0630							.1160	.1940	.4110
180.000	1.3880	.0960	.3420	-.2040	-.1680	-.0050	-.0430	.0090	-.0860	-.0210	.0990	-.1410	.0490	.3310	.3950
225.000		.0880	.5090	-.1650	-.2320	.0110	-.0090						.0580	.1880	.0580
270.000		.0920	.8200	.0520	-.3540	-.0900	-.0460	-.0150			.0820	-.1270	.0070	.0250	.1350
315.000		.0820	.4780	-.1760	-.2520	-.2680	.0200						.1150	.2250	.3200

X/LS .9670

PHI

.000 .4350

45.000 .2940

90.000 .2530

135.000 .3180

180.000 .2390

225.000 -.1080

270.000 .1720

315.000 .3990

MACH (1) = 1.555

DETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3660	.0810	.3080	-.2140	-.1810	-.2050	-.0070	.0270	.0540	.0060	-.0010	-.0950	.1920	.3880	.4890
45.000		.0610	.1680	-.2640	-.2190	-.1120							.2240	.2900	.2760
90.000		.0570	.1050	-.2830	-.2150	-.0670	.0770	.0850	-.0020	-.0350	.0390	.0190	.2000	.2390	.1600
135.000		.0670	.1850	-.2620	-.2120	-.0810							.0770	.1600	.3280
180.000	1.3660	.0770	.3430	-.2000	-.1550	-.0070	-.0860	.0870	-.0390	-.0280	-.0360	-.1480	.0490	.3250	.3680
225.000		.0860	.5210	-.1530	-.2040	.0240	-.0540						.0240	.1490	-.0530

MACH (1) = 1.555

DETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3660	.0810	.3080	-.2140	-.1810	-.2050	-.0070	.0270	.0540	.0060	-.0010	-.0950	.1920	.3880	.4890
45.000		.0610	.1680	-.2640	-.2190	-.1120							.2240	.2900	.2760
90.000		.0570	.1050	-.2830	-.2150	-.0670	.0770	.0850	-.0020	-.0350	.0390	.0190	.2000	.2390	.1600
135.000		.0670	.1850	-.2620	-.2120	-.0810							.0770	.1600	.3280
180.000	1.3660	.0770	.3430	-.2000	-.1550	-.0070	-.0860	.0870	-.0390	-.0280	-.0360	-.1480	.0490	.3250	.3680
225.000		.0860	.5210	-.1530	-.2040	.0240	-.0540						.0240	.1490	-.0530

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBO619)

MACH (1) = 1.555

BETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1090	.8280	.0560	-.3490	-.0160	-.0470	-.0020			.0020	-.1590	-.0130	-.0040	.0570
315.000		.0880	.4920	-.1650	-.2370	-.2220	.0060						.1310	.3610	.2930

X/LS .9670

PHI

.000	.4640
45.000	.2440
90.000	.1920
135.000	.2380
180.000	.1810
225.000	-.2100
270.000	.1320
315.000	.3620

MACH (2) = 2.000

BETAT (1) = -8.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7810	.3040	.2850	-.0400	.0370	-.0160	-.1000	.0300	.0170	.0340	.0150	-.0240	.0630	.1610	.1520
45.000		.3750	.3850	-.0530	-.0310	.0720							.1870	.3550	.3320
90.000		.4100	.4450	-.0270	-.0020	.0240	.0660	.0320	.0820	.0590	.0580	.0900	.2380	.4560	.4040
135.000		.3840	.3850	-.0530	-.0300	.0510							.1400	.4270	.2770
180.000	1.7810	.3120	.2960	-.0410	.0370	-.0190	-.0950	.1700	.1380	.1470	.3740	.1390	.0030	.2840	.0720
225.000		.2260	.6410	.0150	-.0870	-.1640	.1680						-.1210	-.0080	-.0960
270.000		.2040	1.0540	.2920	-.1420	-.2660	.1180	.0330			.0770	-.1670	-.0100	.0470	.1250
315.000		.2220	.6260	.0120	-.0900	-.1590	.0040						.0780	.0720	.0740

X/LS .9670

PHI

.000	.1430
45.000	.3080
90.000	.3500
135.000	.1720
180.000	.4020
225.000	.1160
270.000	.2090
315.000	.1270

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RB0619)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7640	.2930	.2680	-.0530	.0190	-.0310	-.1050	.0190	.0170	.0250	.0040	-.0370	.0600	.1660	.1650
45.000		.3500	.3390	-.0760	-.0530	.0510							.1910	.3430	.3250
90.000		.3790	.3880	-.0530	-.0350	-.0060	.0420	.0070	.0550	.0360	.0310	.0670	.2410	.4300	.3670
135.000		.3600	.3430	-.0750	-.0490	.0370							.1780	.3770	.2450
180.000	1.7640	.3010	.2830	-.0530	.0180	-.0310	-.0970	.1840	.1080	.1090	.2990	.1020	-.0240	.2410	.0710
225.000		.2180	.6400	.0170	-.0890	-.1730	.1700						-.0870	-.0220	-.0020
270.000		.1880	1.0620	.2960	-.1440	-.2700	.0920	-.0140			.0730	-.1430	.0560	.0740	.1370
315.000		.2090	.6260	.0120	-.0950	-.1710	-.0070						.0680	.0750	.0650

X/LS .9670

PHI

.000	.1540
45.000	.2980
90.000	.3140
135.000	.1530
180.000	.3750
225.000	.1620
270.000	.1830
315.000	.1230

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7310	.2640	.2630	-.0710	.0030	-.0520	-.1100	.0050	.0260	.0210	-.0040	-.0420	.0700	.1800	.1680
45.000		.3100	.2970	-.0930	-.0700	.0190							.1880	.3260	.3180
90.000		.3340	.3230	-.0810	-.0570	-.0230	.0180	-.0080	.0370	.0240	.0190	.0540	.2230	.3850	.3450
135.000		.3240	.2970	-.0910	-.0570	-.0020							.1140	.3600	.2150
180.000	1.7310	.2790	.2700	-.0680	.0100	-.0510	.0320	.1640	.0900	.0560	.2590	.0630	-.0530	.1820	.0560
225.000		.2080	.6290	.0130	-.0970	-.1790	.1280						-.0490	.0610	.0570
270.000		.1840	1.0550	.2970	-.1450	-.2750	.0570	-.0270			.0730	-.1120	.0900	.0560	.1160
315.000		.2020	.6090	.0080	-.1010	-.1790	-.0170						.0640	.0800	.0600

X/LS .9670

PHI

.000	.1820
45.000	.2880
90.000	.2900
135.000	.1300
180.000	.3570

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS19)

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2680

270.000 .1750

315.000 .1160

MACH (2) = 2.000

BETAT (4) = -.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6330	.2030	.2180	-.0940	-.0200	-.0780	-.1100	.0090	.0230	.0120	-.0100	-.0320	.0780	.1670	.1930
45.000		.2230	.2170	-.1300	-.0990	-.0170							.1800	.2750	.2890
90.000		.2330	.2300	-.1230	-.0980	-.0570	-.0050	.0020	.0270	.0060	-.0160	.0300	.2180	.3680	.3080
135.000		.2320	.2220	-.1290	-.0910	-.0310							.0570	.2910	.1640
180.000	1.6330	.2160	.2240	-.0960	-.0210	-.0780	.0830	.1160	.0170	-.0090	.1750	-.0080	-.1040	.1190	.0130
225.000		.1690	.2620	.0150	-.0940	-.1800	.0820						-.0330	.0850	.0970
270.000		.1330	1.0280	-.2960	-.1440	-.2740	.0220	-.0490			.0490	-.1040	.0570	.0010	.0650
315.000		.1570	.5860	.0050	-.1030	-.1830	-.0260						.0630	.1190	.0960

X/LS .9670

PHI

.000 .1970

45.000 .2760

90.000 .2470

135.000 .0830

180.000 .4170

225.000 .2440

270.000 .1890

315.000 .2110

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5390	.1580	.1940	-.1050	-.0490	-.1050	-.1120	.0130	.0060	-.0110	-.0090	-.0330	.1140	.2400	.2700
45.000		.1480	.1560	-.1560	-.1270	-.0270							.2040	.2720	.2610
90.000		.1470	.1520	-.1590	-.1410	-.1000	-.0280	-.0210	.0300	-.0180	-.0200	.0210	.1580	.2400	.2290
135.000		.1530	.1570	-.1570	-.1250	-.0610							.1450	.2260	.1090
180.000	1.5390	.1660	.1990	-.1050	-.0440	-.0960	.0110	.0480	-.0360	-.0680	.1280	-.0700	-.0940	.1620	.1110
225.000		.1430	.5600	.0040	-.0820	-.1640	.0660						.0150	.0990	.0180

AMES 97-707.1A9 02A + S3 + T9 SP4 BOOSTER

(RBO519)

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CF

X/LS	.5000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270,000	.1110	.9460	.2910	-.1380	-.2650	.5030	-.0460	.0480	-.1180	.0030	-.0080	.0750
315,000	.1360	.5350	-.0020	-.0900	-.1780	-.5250		.0360	.1560		.1870	

X/LS .9670

FBI

.000	.2650
45.000	.2350
90.000	.1870
135.000	.1320
180.000	.2750
225.000	.0820
270.000	.1690
315.000	.3910

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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Phi

.000	1.4870	.1340	.1810	-.1110	-.0630	-.1150	-.1080	-.0010	-.0170	-.0090	-.0120	-.0270	.0880	.2600	.3110
45.000		.1110	.1230	-.1680	-.1400	-.0550							.1870	.2980	.3200
90.000		.1080	.1200	-.1700	-.1480	-.1150	-.0120	-.0270	.0250	-.0350	-.0190	.0050	.2300	.3520	.3500
135.000		.1180	.1300	-.1660	-.1360	-.0830							.1210	.2190	.1560
180.000	1.4870	.1450	.1890	-.1020	-.0600	-.1020	-.0250	-.0020	-.0700	-.0460	.0690	-.0460	-.0790	.1200	.3200
225.000		.1350	.5370	.0070	-.0730	-.1560	.0520						.0000	.0670	.1070
270.000		.1020	.9090	.2860	-.1270		-.0030	-.0420			.0370	-.1370	-.0100	-.0150	.0870
315.000		.1250		-.0010	-.0820	-.1720	-.0080					.0210	.1670	.3260	

X/LS .9675

PHI

.0000	.3180
45.0000	.3060
90.0000	.2510
135.0000	.3590
180.0000	.2660
225.0000	.0250
270.0000	.1580
315.0000	.4050

TABULATED PRESSURE DATA - 1A9B

(RBO519)

BETAT (7) = 8.020

DEPENDENT VARIABLE CP

X/LS .9670

PHI	
.000	.4670
45.000	.2540
90.000	.1790
135.000	.2430
180.000	.2380
225.000	-.0560
270.000	.2180
315.000	.3050

AMES 97-707 1A9 ORA + S3 + T9 SRM BOOSTER

(RBOS20) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEWON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5440	.3370	.5210	-.1360	-.0680	-.0920	-.0660	.0330	.0670	.0530	.0850	-.0180	.1350	.2740	.3030
45.000		.3960	.4920	-.1320	-.0610	.0540							.3350	.4560	.4360
90.000		.3670	.4060	-.1640	-.0930	-.0300	-.0390	-.0270	.1160	.0650	.2510	.1540	.4160	.5150	.4210
135.000		.2600	.2950	-.2090	-.1470	-.0950							.3050	.3550	.1590
180.000	1.5440	.1630	.3030	-.2180	-.1690	-.1450	.0250	.0830	.0480	.0770	.3630	.0340	-.0200	.1120	.4200
225.000		.1350	.3300	-.2670	-.2590	-.2380	.0090						-.0230	.1200	.2770
270.000		.1740	.7910	.0350	-.3240	-.2340	.0160	.1140			-.0890	-.1410	.1080	.2180	.3110
315.000		.2550	.6220	-.1200	-.1650	-.2070	-.0030						.1400	.1550	.1710

X/LS .9670

PHI

.000	.2860
45.000	.4130
90.000	.3460
135.000	.3360
180.000	.4540
225.000	.2600
270.000	.3520
315.000	.2340

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5270	.3090	.5050	-.1420	-.0770	-.1080	-.0680	.0550	.0560	.0400	.0790	-.0020	.2000	.3190	.3060
45.000		.3600	.4450	-.1440	-.0840	.0270							.3150	.4250	.4140
90.000		.3250	.3480	-.1840	-.1200	-.0590	-.0550	-.0160	.0910	.0330	.2200	.1470	.4020	.4900	.3860
135.000		.2330	.2430	-.2240	-.1610	-.1030							.2830	.3390	.1380
180.000	1.5270	.1380	.2820	-.2250	-.1790	-.1500	.0240	.0750	.0270	.0300	.3510	.0150	-.0380	.0970	.4500
225.000		.1090	.3150	-.2710	-.2640	-.2500	-.0010						-.0100	.1400	.3850
270.000		.1470	.7940	.0360	-.3240	-.2370	.0130	.1020			-.1020	-.1120	.1040	.1660	.2110
315.000		.2210	.6160	-.1230	-.1730	-.2040	-.0160						.1440	.1120	.1550

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1773

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS20)

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3160
45.000	.3860
90.000	.3050
135.000	.3310
180.000	.4510
225.000	.2430
270.000	.2850
315.000	.2220

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5020	.2880	.4910	-.1490	-.0890	-.1190	-.0780	.0480	.0360	.0270	.0690	.0190	.2400	.3260	.3080
45.000		.3170	.3960	-.1580	-.1060	.0010							.3150	.4060	.3980
90.000		.2780	.3000	-.2110	-.1470	-.0710	-.0830	-.0030	.0760	.0120	.1790	.1190	.3930	.4560	.3630
135.000		.1950	.2100	-.2390	-.1750	-.1090							.2710	.3330	.1220
180.000	1.5020	.1130	.2700	-.2280	-.1910	-.1640	.0140	.0700	.0140	.0500	.3060	.0130	-.0530	.1170	.5150
225.000		.0850	.3090	-.2740	-.2860	-.2740	.0110						.0770	.1840	.4190
270.000		.1280	.7910	.0340	-.3480	-.2600	.0160	.0940			-.0740	-.0930	.0970	.0970	.1470
315.000		.2090	.6140	-.1230	-.1730	-.2250	-.0170						.1120	.0810	.1480

X/LS .9670

PHI

.000	.3010
45.000	.3740
90.000	.2800
135.000	.3530
180.000	.4290
225.000	.1730
270.000	.2380
315.000	.2220

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R00S20)

MACH (1) = 1.555

BETAT (4) = -.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4590	.2500	.4640	-.1600	-.1050	-.1360	-.0830	.0250	.0090	.0200	.0490	-.0380	.2570	.3610	.3750
45.000		.2400	.3300	-.1960	-.1460	-.0570							.2830	.3680	.3840
90.000		.1880	.2100	-.2480	-.1900	-.1130	-.0990	-.0030	.0490	-.0170	.1200	.0750	.3540	.3420	.3270
135.000		.1260	.1570	-.2590	-.1960	-.1240							.2310	.3060	.0910
180.000	1.4590	.0680	.2500	-.2300	-.2070	-.1850	-.0160	.0420	-.0520	.0110	.2140	-.0490	-.0290	.1180	.5040
225.000		.0410	.3060	-.2710	-.3480	-.2880	.0240						.0820	.1750	.3300
270.000		.0990	.7860	.0340	-.3560	-.2720	.0370	.0540			.0650	-.1050	.0630	.0720	.1840
315.000		.1830	.6160	-.1190	-.1640	-.2160	.0150						.1440	.1660	.2690

X/LS .9670

PHI

.000	.3910
45.000	.3930
90.000	.2870
135.000	.4450
180.000	.3960
225.000	.1000
270.000	.2470
315.000	.3520

MACH (1) = 1.555

BETAT (5) = 3.960

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4020	.2170	.4420	-.1690	-.1210	-.1470	-.0260	-.0130	-.0260	.0070	.0730	-.0300	.3010	.4910	.5080
45.000		.1700	.2780	-.2280	-.1850	-.1180							.2780	.3660	.3620
90.000		.0990	.1320	-.2800	-.2220	-.1190	-.0370	.0160	.0040	-.0350	.1280	.0870	.3560	.3140	.2390
135.000		.0630	.1340	-.2670	-.1930	-.1260							.2040	.2700	.3820
180.000	1.4020	.0210	.2620	-.2470	-.2170	-.2000	.0020	-.0080	-.0170	-.0260	.1870	-.0720	.0720	.2180	.4090
225.000		.0080	.3330	-.2560	-.3430	-.2630	.0430						.1020	.2610	.1760
270.000		.0750	.8000	.0390	-.3540	-.2510	.0470	-.0180			.0900	-.0920	.0800	.1210	.2400
315.000		.1700	.6240	-.1120	-.1550	-.1810	.0620						.2610	.4200	.3420

X/LS .9670

PHI

.000	.4780
45.000	.3210
90.000	.2440
135.000	.3500
180.000	.2520

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1775

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS20)

MACH (1) = 1.555

BETAT (5) = 3.960

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0210

270.000 .2920

315.000 .3680

MACH (1) = 1.555

BETAT (6) = 6.010

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3730	.1950	.4300	-.1740	-.1320	-.1420	-.0260	-.0550	-.0230	.0710	.0670	-.1010	.3540	.5170	.5150
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45.000		.1260	.2380	-.2410	-.2030	-.1390							.2350	.3490	.3550
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90.000		.0680	.1130	-.2890	-.2300	-.1210	-.0150	.0000	.0330	-.0080	.0850	.0520	.3340	.2990	.1920
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135.000		.0360	.1310	-.2750	-.2020	-.1260							.1630	.2330	.3810
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180.000	1.3730	.0020	.2420	-.2520	-.2210	-.0700	-.0270	.0580	-.0090	.0470	.1480	-.1090	.0770	.2790	.3750
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225.000		-.0030	.3300	-.2570	-.3460	-.1980	.0220						.0930	.2020	.0440
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270.000		.0680	.7950	.0400	-.3480	-.2200	.0210	-.0730			.1030	-.0950	.0390	.0620	.1600
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315.000		.1700	.6280	-.1090	-.1400	-.1600	.0640						.2170	.3580	.4080
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X/LS .9670

PHI

.000 .4940

45.000 .3260

90.000 .1680

135.000 .3180

180.000 .2060

225.000 -.0920

270.000 .1980

315.000 .4290

MACH (1) = 1.555

BETAT (7) = 8.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3440	.1820	.4170	-.1770	-.1340	-.1370	-.0510	.0320	.0530	.0310	.0130	-.1150	.3470	.4820	.4890
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45.000		.0950	.1970	-.2560	-.2240	-.1680							.2380	.3170	.3020
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90.000		.0400	.0870	-.3010	-.2390	-.1240	.0760	.0320	-.0100	-.0380	.0650	.0480	.2790	.3240	.1740
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135.000		.0060	.1170	-.2800	-.2140	-.0970							.1330	.2020	.3190
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180.000	1.3440	-.0150	.2330	-.2520	-.2270	-.0350	-.0440	.1160	-.0080	-.0140	.0280	-.1320	.0570	.2220	.3380
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225.000		-.0090	.3430	-.2470	-.3370	-.0740	-.0160						.0460	.1690	-.0060
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AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(R00S20)

MACH (1) = 1.555

BETAT (7) = 8.080

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0730	.7940	.0410	-.3490	-.1650	-.0140	-.0890			.0440	-.1170	.0090	.0450	.1160
315.000		.1680	.6140	-.1110	-.1300	-.1140	.0550					.1570	.3360	.3870	

X/LS .9670

PHI

.000	.4530
45.000	.2550
90.000	.1830
135.000	.2460
180.000	.1750
225.000	-.1090
270.000	.1200
315.000	.4060

MACH (2) = 2.000

BETAT (1) = -8.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7800	.4000	.4010	.0280	.0820	.0340	-.0330	.0090	.0730	.0690	.0910	.0270	.1640	.2700	.2690
45.000		.4410	.4590	-.0170	.0180	.1290							.3360	.4580	.4540
90.000		.4060	.4380	-.0290	-.0010	.0230	.0450	.0190	.0690	.0930	.0990	.1870	.4220	.5370	.4650
135.000		.3230	.3150	-.0880	-.0710	-.0090							.1950	.4690	.3260
180.000	1.7800	.2390	.2260	-.0780	-.0120	-.0560	-.1430	-.0430	.1530	.1090	.4000	.2030	.0590	.3240	.0940
225.000		.1740	.4740	-.0560	-.1670	-.2240	.1050						-.0850	-.0110	-.0940
270.000		.1990	1.0060	.2760	-.1270	-.2530	.0370	.1650			.0470	-.1400	-.0170	-.0120	.1590
315.000		.2860	.7380	.0800	.0080	-.0890	-.0340						.1080	.1360	.0630

X/LS .9670

PHI

.000	.2480
45.000	.4250
90.000	.4090
135.000	.2120
180.000	-.0050
225.000	.1480
270.000	.2540
315.000	.1610

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS20)

MACH (2) = 2.000

BETAT (2) = -6.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7620	.3900	.3910	.0120	.0690	.0160	-.0410	.0010	.0620	.0540	.0720	.0120	.1690	.2820	.2860
45.000		.4170	.4110	-.0370	-.0060	.1090							.3230	.4390	.4330
90.000		.3730	.3870	-.0570	-.0360	-.0040	.0180	-.0060	.0570	.0760	.0590	.1650	.4050	.5170	.4430
135.000		.3010	.2740	-.1090	-.0900	-.0140							.2160	.5330	.3190
180.000	1.7620	.2240	.2030	-.0950	-.0330	-.0680	-.1480	.0910	.1260	.0880	.3330	.1580	.0400	.2960	.0750
225.000		.1640	.4710	-.0580	-.1720	-.2410	.0900						-.0870	-.0280	-.0440
270.000		.1860	1.0060	.2790	-.1250	-.2520	.0280	.1430			.0610	-.1150	.0150	.0500	.1570
315.000		.2790	.7420	.0810	.0090	-.0960	-.0500						.1060	.1220	.0850

X/LS .9670

PHI

.000	.2620
45.000	.4030
90.000	.3820
135.000	.1950
180.000	-.0250
225.000	.1280
270.000	.2590
315.000	.1650

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7300	.3680	.3740	-.0080	.0530	-.0050	-.0480	-.0070	.0540	.0470	.0450	.0050	.1870	.2970	.2990
45.000		.3740	.3610	-.0640	-.0280	.0890							.2950	.4000	.4060
90.000		.3220	.3320	-.0820	-.0600	-.0320	-.0070	-.0300	.0540	.0580	.0350	.1380	.3690	.4460	.4010
135.000		.2590	.2470	-.1240	-.1070	-.0270							.2210	.5540	.3050
180.000	1.7300	.1970	.1900	-.1040	-.0450	-.0830	-.1480	.0970	.1100	.0610	.3030	.1280	.0240	.2560	.0730
225.000		.1470	.4420	-.0690	-.1810	-.2460	.1190						-.0480	.0480	.0060
270.000		.1760	1.0000	.2780	-.1280	-.2550	.0230	.1240			.0850	-.0900	.0480	.0700	.1260
315.000		.2710	.7360	.0770	.0010	-.1050	-.0620						.1030	.0930	.1080

X/LS .9670

PHI

.000	.2800
45.000	.3780
90.000	.3450
135.000	.1820
180.000	-.0350

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBOS20)

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .1700

270.000 .2220

315.000 .1780

MACH (2) = 2.000

BETAT (4) = -.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.6250	.3020	.3240	-.0440	.0280	-.0330	-.0570	.0110	.0200	.0250	.0180	-.0280	.1960	.3190	.3210
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45.000		.2720	.2730	-.1050	-.0740	.0290							.2470	.3310	.3490
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90.000		.2190	.2260	-.1290	-.1110	-.0810	-.0440	-.0570	.0480	.0280	-.0080	.0840	.3180	.3210	.3280
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135.000		.1720	.1620	-.1600	-.1430	-.0540							.2010	.4310	.2540
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180.000	1.6250	.1310	.1350	-.1170	-.1070	-.1160	.0270	.1200	.0380	-.0080	.2440	.0560	-.0320	.2150	.0430
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225.000		.1020	.4170	-.0780	-.1910	-.2660	.0400						-.0180	.1380	.1090
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270.000		.1290	.9750	.2770	-.1320	-.2530	.0420	.1150			.0940	-.0820	.0720	.0370	.0840
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315.000		.2340	.7230	.0730	.0000	-.1050	-.0660						.1220	.1310	.1890
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X/LS .9670

PHI

.000 .2890

45.000 .3270

90.000 .2800

135.000 .1330

180.000 .1710

225.000 .3100

270.000 .1750

315.000 .2900

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.5270	.2530	.3110	-.0650	.0010	-.0570	-.0680	.0130	-.0250	.0010	-.0010	-.0400	.2250	.3770	.3470
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45.000		.1890	.2010	-.1360	-.1130	-.0400							.1900	.2780	.2920
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90.000		.1310	.1410	-.1660	-.1480	-.1150	-.0630	-.0110	.0180	-.0120	-.0110	.0540	.2810	.3500	.2320
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135.000		.1020	.1000	-.1840	-.1610	-.0770							.1370	.3600	.2290
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180.000	1.5270	.0800	.1050	-.1440	-.0820	-.1330	.0450	.0550	-.0220	-.0110	.1200	-.0030	-.0500	.1810	.0220
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225.000		.0650	.3980	-.0720	-.1820	-.2450	.0660						.0220	.1140	.0530
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DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1779

AMES 97-707 1A9 OCA + S3 + T9 SRM BOOSTER

(RBO620)

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9366
PHI															
270.000		.1000	.9480	.2750	-.1320	-.2440	.0970	.0860			.0690	-.1000	.0050	-.0020	.0950
315.000		.2110	.6690	.0760	.0090	-.0920	-.0500						.1070	.2400	.3380

X/LS .9670

PHI

.000	.3990
45.000	.2720
90.000	.1930
135.000	.0990
180.000	.3140
225.000	.1510
270.000	.1690
315.000	.3150

MACH (2) = 2.000

BETAT (6) = 5.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9366
PHI															
.000	1.4660	.2300	.2940	-.0660	-.0090	-.0660	-.0720	-.0030	-.0510	.0090	-.0020	-.0570	.2250	.3320	.3840
45.000		.1450	.1650	-.1510	-.1280	-.0700							.1890	.2890	.3330
90.000		.0890	.1070	-.1790	-.1690	-.1200	-.0730	-.0180	-.0010	-.0360	-.0180	.0380	.2730	.3980	.2360
135.000		.0680	.0720	-.1910	-.1610	-.0940							.1960	.3890	.2510
180.000	1.4660	.0560	.0830	-.1550	-.0910	-.1430	.0110	.0190	-.0470	.0180	.0920	-.0170	-.0710	.1340	.0200
225.000		.0510	.3960	-.0690	-.1800	-.2290	.0620						-.0250	.0790	.0590
270.000		.0920	.9460	.2670	-.1230	-.2350	.0930	.0500			.0390	-.1140	-.0140	.0190	.0750
315.000		.2030	.6760	.0820	.0170	-.0820	-.0360						.0540	.2670	.4000

X/LS .9670

PHI

.000	.4070
45.000	.3400
90.000	.2090
135.000	.1130
180.000	.3480
225.000	.0720
270.000	.1810
315.000	.3190

(R0520)

BETAT (7) = 8.949

DEPENDENT VARIABLE CP

.000	.4240
45.000	.2880
90.000	.1430
135.000	.0620
180.000	.2990
225.000	.0090
270.000	.2450
315.000	.3210

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1781

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(RBOS21) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5290	.3960	.5780	-.1210	-.0390	-.0620	-.0440	.0500	.0650	.0600	.1170	.0190	.1880	.3510	.3770
45.000		.4280	.5250	-.1190	-.0510	.0750							.3810	.4940	.4780
90.000		.3440	.4030	-.1730	-.1070	-.0490	-.0650	-.0690	.0790	.0600	.2750	.1790	.4540	.5170	.4320
135.000		.2250	.2420	-.2280	-.1720	-.1260							.3510	.3510	.1620
180.000	1.5290	.1340	.2550	-.2350	-.1880	-.1760	-.0270	.0560	.0820	.1170	.3680	.0440	-.0340	.1160	.3010
225.000		.1100	.2370	-.3100	-.3120	-.2920	.0080						-.0110	.1170	.2680
270.000		.1600	.7650	.0220	-.3480	-.2770	-.0040	.1300			-.0840	-.1370	.1210	.2320	.3180
315.000		.2860	.6780	-.0960	-.1240	-.1760	-.0020						.1670	.1850	.2130

X/LS .9670

PHI

.000 .3390
 45.000 .4540
 90.000 .3590
 135.000 .0560
 180.000 .4220
 225.000 .2340
 270.000 .3440
 315.000 .2520

MACH (1) = 1.555

BETAT (2) = -6.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5160	.3660	.5630	-.1230	-.0470	-.0750	-.0410	.0580	.0520	.0510	.1090	.0220	.2560	.3810	.3690
45.000		.3860	.4840	-.1330	-.0670	.0380							.3570	.4610	.4500
90.000		.3030	.3470	-.1900	-.1320	-.0800	-.0810	-.1050	.0600	.0280	.2330	.1570	.4170	.4580	.3900
135.000		.1950	.2010	-.2450	-.1850	-.1330							.3390	.3440	.1470
180.000	1.5160	.1050	.2360	-.2400	-.1950	-.1740	-.0110	.0590	.0480	.0710	.3310	.0280	-.0480	.1060	.3590
225.000		.0740	.2260	-.3150	-.2910	-.2850	-.0030						-.0080	.1450	.3680
270.000		.1380	.7630	.0220	-.3450	-.2480	-.0180	.1140			-.0870	-.1090	.1250	.1840	.2340
315.000		.2590	.6780	-.0940	-.1250	-.1780	-.0150						.1610	.1410	.1960

X/LS .9670

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(R00621)

MACH (1) = 1.555

BETAT (2) = -6.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3610
45.000	.4250
90.000	.3190
135.000	.0770
180.000	.4130
225.000	.2020
270.000	.2890
315.000	.2400

MACH (1) = 1.555

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4890	.3440	.5440	-.1280	-.0570	-.0840	-.0500	.0610	.0310	.0460	.0910	.0410	.2890	.3840	.3690
45.000		.3460	.4340	-.1520	-.0890	.0120							.3560	.4440	.4290
90.000		.2590	.2920	-.2090	-.1530	-.0930	-.1120	-.1020	.0490	.0040	.2090	.1300	.3950	.4110	.3570
135.000		.1640	.1640	-.2570	-.1900	-.1320							.3310	.3300	.1330
180.000	1.4890	.0870	.2220	-.2480	-.2060	-.1840	-.0020	.0690	.0290	.0750	.3140	.0140	-.0560	.1440	.4850
225.000		.0510	.2220	-.3160	-.3080	-.3050	-.0070						.0910	.2100	.3520
270.000		.1210	.7590	.0220	-.3510	-.2850	-.0040	.0970			-.0470	-.0850	.1020	.1160	.1890
315.000		.2490	.6740	-.0920	-.1240	-.1760	-.0220						.1190	.1100	.1870

X/LS .9670

PHI

.000	.3500
45.000	.3970
90.000	.2910
135.000	.2310
180.000	.3870
225.000	.1470
270.000	.2470
315.000	.2420

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS21)

MACH (1) = 1.555

BETAT (4) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4430	.3050	.5190	-.1400	-.0770	-.0990	-.0550	.0270	.0060	.0230	.0530	-.0090	.2970	.4030	.4170
45.000		.2720	.3730	-.1860	-.1380	-.0570							.3320	.4050	.4060
90.000		.1700	.2040	-.2490	-.2030	-.1460	-.1380	-.0260	.0340	-.0200	.1410	.0710	.3410	.3200	.3310
135.000		.1020	.1170	-.2790	-.2130	-.1480							.2660	.3300	.1090
180.000	1.4430	.0290	.1970	-.2590	-.2310	-.1980	-.0040	.0520	-.0220	.0070	.2500	-.0280	.0000	.1480	.4880
225.000		.0050	.2100	-.3220	-.3480	-.3250	-.0170						.0920	.2040	.2660
270.000		.0860	.7510	.0200	-.3470	-.2970	.0210	.0340			.0780	-.0810	.0790	.0510	.1790
315.000		.2240	.6750	-.0910	-.1140	-.1620	-.0040						.1370	.1590	.3220

X/LS .9670

PHI

.000	.4340
45.000	.4150
90.000	.2840
135.000	.3370
180.000	.3680
225.000	.0600
270.000	.2380
315.000	.3770

MACH (1) = 1.555

BETAT (5) = 3.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3900	.2690	.4980	-.1530	-.0980	-.1060	-.0170	-.0260	-.0370	.0040	.0300	.0870	.3960	.5560	.5200
45.000		.1800	.2900	-.2240	-.1830	-.1250							.3020	.3860	.3780
90.000		.0760	.1260	-.2860	-.2470	-.1660	-.0780	-.0080	-.0100	-.0330	.1400	.0910	.3120	.2930	.2220
135.000		.0340	.0760	-.2950	-.2120	-.1350							.2560	.3500	.2630
180.000	1.3900	-.0240	.1890	-.2760	-.2350	-.2090	.0100	.0080	-.0060	-.0020	.2060	-.0610	.0740	.2320	.4050
225.000		-.0360	.2120	-.3130	-.3450	-.3020	-.0070						.1170	.2860	.1480
270.000		.0570	.7510	.0180	-.3460	-.2710	-.0190	-.0800			.1040	-.0930	.1050	.1200	.2310
315.000		.2180	.6770	-.0900	-.0990	-.1290	.0480						.2820	.3520	.3450

X/LS .9670

PHI

.000	.4990
45.000	.3530
90.000	.2060
135.000	.3290
180.000	.2280

AMES 97-707 IA9 Q2A +.53 + T9 SRM BOOSTER

(RBOS21)

MACH (1) = 1.555

BETAT (5) = 3.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0270

270.000 .2810

315.000 .3790

MACH (1) = 1.555

BETAT (6) = 6.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3480	.2600	.4770	-.1570	-.1030	-.1040	-.0240	-.0680	-.0360	.0540	.0710	.0070	.3860	.4960	.5160
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45.000		.1520	.2500	-.2350	-.2040	-.1510							.2760	.3710	.3610
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90.000		.0500	.0980	-.2990	-.2540	-.1650	-.0340	-.0230	.0300	-.0120	.1080	.0740	.2800	.2950	.1880
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135.000		.0110	.0800	-.2920	-.2120	-.1390							.2070	.2950	.3230
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180.000	1.3480	-.0440	.1820	-.2700	-.2470	-.1980	-.0050	.0160	.0270	.1260	.1850	-.0960	.0830	.2570	.3630
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225.000		-.0510	.2290	-.3070	-.3390	-.2750	-.0200						.1030	.2180	.0470
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270.000		.0450	.7520	.0200	-.3460	-.2550	-.0540	-.1460			.1190	-.0930	.0540	.0950	.1850
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315.000		.2120	.6640	-.0940	-.0930	-.0960	.0570						.2210	.3170	.4200
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X/LS .9670

PHI

.000 .5020

45.000 .3250

90.000 .1760

135.000 .2930

180.000 .1940

225.000 .0050

270.000 .2050

315.000 .4680

MACH (1) = 1.555

BETAT (7) = 8.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3210	.2430	.4670	-.1640	-.1030	-.0930	-.0460	.0330	.0530	.0160	.0130	-.0270	.3370	.4940	.5060
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45.000		.1190	.2160	-.2530	-.2270	-.1810							.2530	.3270	.2920
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90.000		.0160	.0720	-.3130	-.2700	-.1590	-.0490	-.0160	-.0220	-.0270	.0670	.0250	.2560	.2960	.1430
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135.000		-.0070	.0770	-.2980	-.2190	-.1280							.1620	.2400	.3230
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180.000	1.3210	-.0540	.1790	-.2740	-.2550	-.0770	.0090	.1000	.0380	.0620	.0400	-.1200	.0300	.1810	.3450
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225.000		-.0550	.2410	-.3010	-.3420	-.2200	-.0540						.0420	.1790	.0120
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DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1785

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBO621)

MACH (1) = 1.555

BETAT (7) = 8.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0530	.7420	.0180	-.3450	-.2510	-.0810	-.1210			.0620	-.1150	.0270	.0850	.1220
315.000		.2140	.6580	-.0980	-.0770	-.0320	.0540					.1610	.3530	.4440	

X/LS .9670

PHI

.000	.4690
45.000	.2440
90.000	.1670
135.000	.2480
180.000	.1910
225.000	-.0340
270.000	.1210
315.000	.4830

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7750	.4600	.4790	.0650	.1100	.0620	.0040	.0440	.0870	.0890	.1170	.0460	.2240	.3460	.3330
45.000		.4810	.4960	.0010	.0460	.1530							.3770	.4910	.4910
90.000		.4100	.4400	-.0340	-.0050	.0180	.0090	.0030	.0290	.0770	.1320	.2250	.4590	.5480	.4910
135.000		.3000	.2860	-.1080	-.0960	-.0260							.3320	.3530	.2820
180.000	1.7750	.2100	.2160	-.0840	-.0300	-.0720	-.1650	-.0550	.1150	.0830	.3320	.2320	.0620	.3780	.1350
225.000		.1520	.4170	-.0970	-.2120	-.2800	.0430						-.1000	-.0270	-.1170
270.000		.1930	1.0100	.2710	-.1210	-.2270	-.0280	.1500			.1040	-.1200	-.0490	.0300	.1900
315.000		.3210	.8220	.1120	.0540	-.0480	.0080						.1600	.1610	.1660

X/LS .9670

PHI

.000	.3200
45.000	.4620
90.000	.4330
135.000	.1970
180.000	.0210
225.000	.1440
270.000	.2720
315.000	.2150

AMES 97-707 1A9-02A + S3 + T9 SRM BOOSTER

(RB0621)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7570	.4460	.4730	.0610	.0910	.0400	-.0060	.0280	.0720	.0730	.0860	.0270	.2250	.3490	.3410
45.000		.4510	.4490	-.0250	.0150	.1150							.3570	.4680	.4650
90.000		.3680	.3760	-.0630	-.0370	-.0180	-.0190	-.0250	.0220	.0580	.0680	.1940	.4390	.5200	.4580
135.000		.2710	.2340	-.1210	-.1080	-.0390							.1840	.3520	.2770
180.000	1.7570	.1930	.1790	-.0930	-.0420	-.0850	-.1700	-.0420	.1300	.0750	.3260	.1740	.0480	.3410	.1910
225.000		.1370	.3890	-.1050	-.2250	-.2930	.0290						-.1100	-.0540	-.0830
270.000		.1830	1.0060	.2720	-.1230	-.2280	-.0590	.1190			.1180	-.1050	.0190	.0710	.2070
315.000		.3140	.8160	.1090	.0500	-.0580	-.0110						.1420	.1330	.1620

X/LS .9670

PHI

.000	.3340
45.000	.4380
90.000	.4020
135.000	.1890
180.000	-.0010
225.000	.1680
270.000	.3000
315.000	.2310

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7150	.4170	.4470	.0320	.0760	.0200	-.0160	.0160	.0610	.0600	.0550	.0110	.2420	.3660	.3540
45.000		.3940	.3990	-.0480	-.0080	.0700							.3320	.4400	.4370
90.000		.3070	.3190	-.0870	-.0600	-.0420	-.0450	-.0510	.0220	.0450	.0310	.1650	.4070	.4670	.4200
135.000		.2240	.2080	-.1390	-.1240	-.0530							.1570	.4450	.3000
180.000	1.7150	.1570	.1510	-.1110	-.0610	-.1020	-.1690	.0280	.1150	.0500	.2940	.1550	.0310	.2900	.0770
225.000		.1150	.3690	-.1110	-.2270	-.2940	-.0490						-.0760	.0180	-.0240
270.000		.1720	.9870	.2690	-.1230	-.2300	-.0630	.1170			.1150	-.0880	.0460	.0860	.1590
315.000		.3060	.8030	.1050	.0440	-.0670	-.0230						.1220	.1110	.1710

X/LS .9670

PHI

.000	.3440
45.000	.4110
90.000	.3670
135.000	.1920
180.000	-.0290

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1787

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS21)

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .1850

270.000 .2550

315.000 .2440

MACH (2) = 2.000

BETAT (4) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6090	.3520	.3850	-.0020	.0500	-.0080	-.0250	.0160	.0210	.0260	.0150	-.0390	.2420	.3590	.3540
45.000		.2940	.3040	-.0920	-.0580	.0220							.2740	.3610	.3620
90.000		.2050	.2110	-.1330	-.1170	-.0910	-.0880	-.0880	.0250	.0130	.0000	.0920	.3150	.3240	.3360
135.000		.1470	.1300	-.1720	-.1580	-.0710							.2360	.5370	.2020
180.000	1.6090	.0980	.0950	-.1270	-.1090	-.1280	-.0460	.0890	.0440	-.0110	.2420	.0780	.0320	.1960	.0530
225.000		.0670	.3250	-.1240	-.2390	-.2340	-.0800						.0290	.1300	.0710
270.000		.1260	.9590	.2650	-.1280	-.2280	-.0940	.0940			.1090	-.0610	.0730	.0470	.1110
315.000		.2720	.7870	.0990	.0410	-.0630	-.0270						.1430	.1650	.2490

X/LS .9670

PHI

.000 .3550

45.000 .3410

90.000 .2900

135.000 .1610

180.000 -.0380

225.000 .2820

270.000 .1930

315.000 .3470

MACH (2) = 2.000

BETAT (5) = 3.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4990	.3040	.3720	-.0390	.0240	-.0320	-.0440	.0040	-.0200	.0010	-.0060	-.0590	.2500	.3910	.4230
45.000		.2070	.2260	-.1240	-.1010	-.0470							.2240	.3100	.3050
90.000		.1180	.1270	-.1700	-.1590	-.1300	-.1020	-.0280	-.0030	-.0260	.0080	.0740	.2400	.2970	.1770
135.000		.0760	.0720	-.1950	-.1800	-.0830							.1820	.3430	.2520
180.000	1.4990	.0440	.0620	-.1460	-.1050	-.1430	.0400	.0450	-.0160	.0330	.1090	.0040	.0000	.1530	.0190
225.000		.0290	.2960	-.1250	-.2340	-.2220	-.0660						.0120	.1260	.1030

AMES 97-707 1A9 CEA + S3 + T9 SRM BOOSTER

(RBOS21)

MACH (2) = 2.000

BETAT (5) = 3.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0940	.9240	.2570	-.1300	-.2150	-.0710	.0380			.0710	-.0860	.0460	.0110	.1040
315.000		.2500	.6150	.1010	.0480	-.0450	-.0090					.1220	.2890	.3330	

PHI

X/LS .9670

PHI

.000	.4080
45.000	.2840
90.000	.1800
135.000	.1330
180.000	.2700
225.000	.1610
270.000	.2000
315.000	.3050

MACH (2) = 2.000

BETAT (6) = 6.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4430	.2820	.3650	-.0450	.0100	-.0390	-.0440	-.0080	-.0390	.0090	-.0070	-.0880	.2180	.3200	.3920
45.000		.1660	.1890	-.1380	-.1200	-.0750							.2160	.3160	.3300
90.000		.0740	.0940	-.1860	-.1730	-.1470	-.1110	-.0320	-.0420	-.0550	.0020	.0560	.2420	.3460	.2180
135.000		.0420	.0500	-.2010	-.1870	-.0900							.2250	.3570	.2810
180.000	1.4430	.0170	.0420	-.1630	-.1070	-.1590	.0280	.0140	-.0400	.0240	.0720	-.0070	-.0090	.1380	.0560
225.000		.0140	.2710	-.1170	-.2230	-.2220	-.0490						-.0230	.0730	.2100
270.000		.0830	.9290	.2460	-.1250	-.2040	-.0470	.0040			.0440	-.0990	.0310	.0540	.0890
315.000		.2440	.5190	.0950	.0540	-.0340	.0250					.1020	.3660	.3970	

PHI

X/LS .9670

PHI

.000	.3890
45.000	.3310
90.000	.1970
135.000	.1600
180.000	.3050
225.000	.0920
270.000	.1920
315.000	.3660

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1789

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS21)

MACH (2) = 2.000

BETAT (7) = 8.070

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3920	.2660	.3680	-.0530	-.0160	-.0460	-.0270	-.0120	-.0410	.0130	-.0310	-.0370	.2530	.3940	.4360
45.000		.1320	.1560	-.1540	-.1360	-.1030							.2670	.3320	.3130
90.000		.0440	.0570	-.1990	-.1860	-.1620	-.0970	-.0650	-.1090	-.0420	.0220	.0920	.2810	.3780	.2320
135.000		.0160	.0260	-.2120	-.1940	-.0980							.0850	.3160	.1850
180.000	1.3920	-.0040	.0320	-.1680	-.1220	-.1690	.0130	-.0230	-.0550	.0030	.1030	.0260	-.0800	.0840	.1320
225.000		-.0010	.2610	-.1010	-.2110	-.2420	.0640						-.0630	.0230	.2210
270.000		.0690	.9200	.2330	-.1180	-.1980	.0560	-.0480			.0270	-.1000	.0470	.0940	.1180
315.000		.2330	.4670	.1010	.0560	-.0190	.0480						.1750	.4820	.3300

X/LS .9670

PHI

.000	.4360
45.000	.2810
90.000	.1010
135.000	.1230
180.000	.3050
225.000	.0150
270.000	.2260
315.000	.3530

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBO22) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.360

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5160	.4560	.6330	-.1030	-.0070	-.0270	-.0040	.0820	.0810	.0700	.1340	.0580	.2580	.4240	.4190
45.000		.4580	.5580	-.1110	-.0340	.0890							.4350	.5410	.5200
90.000		.3260	.3880	-.1800	-.1190	-.0750	-.0970	-.1010	.0200	.0390	.2970	.2020	.4930	.5130	.4310
135.000		.1770	.2030	-.2470	-.2010	-.1670							.3690	.2970	.1490
180.000	1.5160	.0970	.2160	-.2470	-.2090	-.2100	-.1250	-.0340	.1210	.1750	.4140	.0730	-.0750	.1310	.0390
225.000		.0840	.1470	-.3560	-.3530	-.3340	-.0160						-.0380	.1240	.2940
270.000		.1400	.7240	.0070	-.3420	-.3200	-.0540	.1300			-.0590	-.1110	.1640	.2430	.3190
315.000		.3230	.7320	-.0700	-.0810	-.1270	.0210						.1910	.1960	.2250

X/LS .9670

PHI

.000 .3910
 45.000 .4900
 90.000 .3610
 135.000 .0430
 180.000 .4010
 225.000 .2280
 270.000 .3480
 315.000 .2750

MACH (1) = 1.555

BETAT (2) = -6.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4960	.4280	.6180	-.1080	-.0180	-.0380	-.0070	.0760	.0660	.0570	.1160	.0500	.3120	.4410	.4110
45.000		.4170	.5210	-.1300	-.0550	.0470							.4190	.5170	.4940
90.000		.2790	.3370	-.1990	-.1510	-.1050	-.1160	-.1380	.0000	.0040	.2490	.1730	.4320	.4510	.3820
135.000		.1490	.1540	-.2620	-.2130	-.1690							.3600	.3020	.1440
180.000	1.4960	.0710	.1970	-.2520	-.2180	-.2100	-.0960	.0210	.0740	.1190	.3610	.0560	-.0900	.1260	.2340
225.000		.0440	.1300	-.3650	-.3280	-.3240	-.0350						.0080	.1650	.3410
270.000		.1160	.7210	.0070	-.3440	-.2840	-.0610	.1150			-.0640	-.0890	.1490	.1810	.2500
315.000		.3030	.7290	-.0700	-.0830	-.1280	.0050						.1790	.1500	.2190

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1791

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS22)

MACH (1) = 1.555

BETAT (2) = -6.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3870
45.000	.4540
90.000	.3210
135.000	.0360
180.000	.3850
225.000	.1740
270.000	.2970
315.000	.2800

MACH (1) = 1.555

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4700	.4110	.5970	-.1130	-.0290	-.0470	-.0220	.0760	.0370	.0430	.0910	.0660	.3300	.4360	.4110
45.000		.3720	.4850	-.1470	-.0770	.0180							.4140	.4920	.4640
90.000		.2370	.2830	-.2200	-.1700	-.1300	-.1560	-.1580	-.0090	-.0250	.2140	.1450	.3820	.4000	.3360
135.000		.1180	.1240	-.2740	-.2170	-.1660							.3510	.3030	.1400
180.000	1.4700	.0490	.1730	-.2610	-.2270	-.2140	-.0650	.0470	.0390	.1030	.3150	.0330	-.1110	.1400	.3380
225.000		.0140	.1130	-.3700	-.3380	-.3360	-.0460						.0930	.2240	.3160
270.000		.1010	.7170	.0030	-.3450	-.2860	-.0610	.0900			-.0490	-.0750	.1160	.1290	.2120
315.000		.2930	.7260	-.0710	-.0840	-.1260	.0040						.1260	.1220	.2140

X/LS .9670

PHI

.000	.3990
45.000	.4240
90.000	.2790
135.000	.0370
180.000	.3630
225.000	.1370
270.000	.2650
315.000	.2790

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(RB0622)

MACH (1) = 1.555

BETAT (4) = -.115

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4240	.3700	.5730	-.1250	-.0520	-.0570	-.0050	.0240	-.0060	.0080	.0470	.0070	.3110	.4500	.4680
45.000		.2940	.3930	-.1820	-.1290	-.0580							.3460	.4190	.4210
90.000		.1490	.1980	-.2600	-.2240	-.1970	-.1830	-.1450	-.0120	-.0310	.1380	.0850	.2770	.3110	.3160
135.000		.0650	.0720	-.2960	-.2350	-.1760							.2180	.3320	.1540
180.000	1.4240	.0070	.1430	-.2780	-.2480	-.2230	-.0200	.0500	.0180	.0230	.2460	-.0150	-.0370	.1630	.4580
225.000		-.0390	.0990	-.3760	-.3680	-.3530	-.0760						.0930	.2400	.1890
270.000		.0640	.7070	.0010	-.3400	-.3550	-.0540	.0440			.0460	-.0840	.1030	.0730	.1930
315.000		.2720	.7230	-.0690	-.0700	-.1050	.0350						.1170	.1640	.3490

X/LS .9670

PHI

.000	.4840
45.000	.4370
90.000	.2610
135.000	.1860
180.000	.3370
225.000	.0370
270.000	.2400
315.000	.4080

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3600	.3340	.5380	-.1390	-.0680	-.0640	.0020	-.0270	-.0550	-.0120	.0170	.1010	.4370	.5480	.5280
45.000		.2040	.2980	-.2190	-.1790	-.1270							.3220	.4020	.3840
90.000		.0530	.1080	-.2950	-.2720	-.2300	-.1680	-.0450	-.0450	-.0380	.1500	.0910	.3050	.3000	.2150
135.000		.0010	.0490	-.3130	-.2340	-.1540							.2600	.4050	.1910
180.000	1.3600	-.0480	.1320	-.2860	-.2490	-.2320	.0350	.0260	.0180	.0310	.2250	-.0570	.0690	.2520	.3800
225.000		-.0830	.1060	-.3640	-.3660	-.3270	-.1090						.1170	.2740	.1140
270.000		.0360	.6970	.0010	-.3290	-.3230	-.1140	-.0710			.0880	-.0750	.0810	.1220	.2180
315.000		.2670	.7060	-.0720	-.0440	-.0590	.0770						.2490	.2790	.3290

X/LS .9670

PHI

.000	.5260
45.000	.3700
90.000	.2030
135.000	.2230
180.000	.2110

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0622)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0340

270.000 .2520

315.000 .3680

MACH (1) = 1.555

BETAT (6) = 6.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3260	.3210	.5290	-.1450	-.0660	-.0620	-.0090	-.0610	-.0740	.0590	.0620	.0440	.4010	.5200	.5400
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45.000		.1730	.2680	-.2320	-.2060	-.1560							.2990	.3700	.3540
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90.000		.0270	.0750	-.3110	-.2820	-.2390	-.0950	-.0750	-.0190	-.0160	.1200	.0750	.2790	.3080	.1740
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135.000		-.0150	.0430	-.3170	-.2330	-.1580							.2350	.3190	.2980
---------	--	--------	-------	--------	--------	--------	--	--	--	--	--	--	-------	-------	-------

180.000	1.3260	-.0660	.1230	-.2960	-.2650	-.2280	.0110	.0150	.0670	.1510	.1890	-.0900	.0860	.3100	.3480
---------	--------	--------	-------	--------	--------	--------	-------	-------	-------	-------	-------	--------	-------	-------	-------

225.000		-.0960	.1000	-.3660	-.3750	-.3140	-.1440						.1110	.2320	.0340
---------	--	--------	-------	--------	--------	--------	--------	--	--	--	--	--	-------	-------	-------

270.000		.0230	.6780	-.0110	-.3300	-.3070	-.1390	-.1200			.1050	-.0860	.0620	.1180	.1910
---------	--	-------	-------	--------	--------	--------	--------	--------	--	--	-------	--------	-------	-------	-------

315.000		.2600	.7000	-.0790	-.0350	-.0190	.0820						.2370	.3310	.4360
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X/LS .9670

PHI

.000 .5290

45.000 .3160

90.000 .1530

135.000 .2370

180.000 .1660

225.000 .0300

270.000 .2000

315.000 .5000

MACH (1) = 1.555

BETAT (7) = 8.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.2970	.3010	.5100	-.1510	-.0610	-.0380	-.0270	-.0710	.0360	.0070	.0030	.0230	.3410	.5020	.5160
------	--------	-------	-------	--------	--------	--------	--------	--------	-------	-------	-------	-------	-------	-------	-------

45.000		.1400	.2240	-.2530	-.2310	-.1880							.2680	.3290	.2820
--------	--	-------	-------	--------	--------	--------	--	--	--	--	--	--	-------	-------	-------

90.000		-.0080	.0430	-.3280	-.3070	-.2250	-.0050	-.0820	-.0270	-.0320	.0670	.0140	.2480	.2910	.1370
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135.000		-.0370	.0400	-.3130	-.2330	-.1510							.1690	.2420	.3390
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180.000	1.2970	-.0840	.1240	-.2930	-.2720	-.2140	.0360	.0640	.0430	.1050	.1800	-.1070	-.0030	.2760	.3050
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225.000		-.1040	.1170	-.3590	-.3800	-.2970	-.1620						.0480	.1890	-.0070
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AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBOS22)

MACH (1) = 1.555

BETAT (7) = 8.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0450	.6810	-.0080	-.3330	-.2680	-.1540	-.0120			.0760	-.1140	.0320	.0960	.1210
315.000		.2750	.6930	-.0780	-.0290	.0550	.0710					.2140	.3970	.4670	

X/LS .9670

PHI

.000	.4880
45.000	.2310
90.000	.1020
135.000	.1930
180.000	.1820
225.000	.0020
270.000	.1160
315.000	.5210

MACH (2) = 2.000

BETAT (1) = -8.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7550	.5190	.5680	.0950	.1350	.0900	.0450	.0790	.1000	.1150	.1190	.0620	.2710	.4010	.3990
45.000		.5150	.5370	.0220	.0730	.1340							.4070	.5170	.5200
90.000		.3990	.4250	-.0380	-.0170	.0210	-.0160	-.0270	-.0420	.0230	.1710	.2280	.4640	.5230	.4950
135.000		.2690	.2450	-.1240	-.1150	-.0610							.3920	.3650	.2750
180.000	1.7550	.1870	.2180	-.0910	-.0500	-.0800	-.1610	-.0930	.0460	.0570	.2920	.2160	.1060	.4270	.1580
225.000		.1250	.3350	-.1320	-.2530	-.2800	-.0160						-.0370	-.0110	-.0940
270.000		.1860	.9790	.2610	-.1140	-.1980	-.1370	.0930			.1600	-.1140	-.0310	.0620	.2110
315.000		.3580	.8700	.1360	.0960	-.0060	.0480					.2010	.2180	.2280	

X/LS .9670

PHI

.000	.3860
45.000	.5070
90.000	.4450
135.000	.1850
180.000	.0220
225.000	.1620
270.000	.2830
315.000	.2730

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1795

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBOS22)

MACH (2) = 2.000

BETAT (2) = -6.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7410	.5020	.5540	.0890	.1190	.0650	.0330	.0610	.0850	.0970	.0900	.0330	.2650	.4040	.4090
45.000		.4790	.4860	-.0060	.0410	.1040							.3770	.4800	.4830
90.000		.3470	.3650	-.0620	-.0410	-.0180	-.0510	-.0540	-.0640	.0190	.1170	.2030	.4290	.4760	.4510
135.000		.2300	.2140	-.1390	-.1310	-.0690							.3540	.2960	.2420
180.000	1.7410	.1540	.1910	-.1040	-.0640	-.1010	-.1640	-.0900	.0790	.0520	.2690	.2000	.0950	.3970	.1400
225.000		.1080	.3030	-.1520	-.2660	-.2930	-.0480						-.0580	-.0230	-.0710
270.000		.1800	.9800	.2600	-.1190	-.2030	-.1510	.0810			.1650	-.1010	.0140	.0950	.2300
315.000		.3520	.8710	.1310	.0890	-.0170	.0310						.1880	.2010	.2270

X/LS .9670

PHI

.000	.3900
45.000	.4770
90.000	.4030
135.000	.1650
180.000	.0270
225.000	.1820
270.000	.3260
315.000	.2950

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6930	.4710	.5260	.0790	.0980	.0470	.0190	.0420	.0690	.0770	.0520	.0020	.2850	.4150	.4080
45.000		.4230	.4300	-.0310	.0080	.0940							.3420	.4400	.4430
90.000		.2980	.3050	-.0930	-.0680	-.0500	-.0830	-.0860	-.0830	.0000	.0740	.1680	.3930	.4280	.3980
135.000		.2020	.1740	-.1560	-.1460	-.0810							.1670	.2780	.2130
180.000	1.6930	.1260	.1430	-.1210	-.0860	-.1180	-.1340	-.0240	.0860	.0410	.2590	.1830	.0570	.3340	.1110
225.000		.0850	.2810	-.1560	-.2710	-.2930	-.0900						-.0540	.0160	-.0290
270.000		.1640	.9640	.2560	-.1210	-.2060	-.1400	.0810			.1470	-.0910	.0520	.1130	.2030
315.000		.3440	.8610	.1280	.0830	-.0230	.0170						.1570	.1630	.2260

X/LS .9670

PHI

.000	.3940
45.000	.4350
90.000	.3610
135.000	.1570
180.000	.0030

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(R50522)

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2210

270.000 .2910

315.000 .2920

MACH (2) = 2.000

BETAT (4) = -.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5870	.4080	.4700	.0480	.0700	.0180	.0020	.0380	.0290	.0240	.0030	-.0440	-.4240	-.4670	.4060
45.000		.3180	.3280	-.0760	-.0410	.0220							-.3130	-.5580	.3500
90.000		.1860	.2000	-.1380	-.1200	-.0980	-.1340	-.1340	-.0140	-.0180	.0470	.1040	-.2610	-.3100	.2930
135.000		.1170	.0980	-.1840	-.1740	-.0940							-.3330	-.3100	.2600
180.000	1.5870	.0650	.0780	-.1440	-.1200	-.1460	-.0860	.0520	.0350	.0040	.2160	-.1180	-.2700	-.3140	.0570
225.000		.0290	.2380	-.1730	-.2800	-.2980	-.0360						-.2880	-.3460	.0530
270.000		.1180	.9370	.2500	-.1300	-.2020	-.1230	.1330			.1360	-.2100	-.3690	-.3610	.1400
315.000		.3080	.8320	.1200	.0750	-.0200	.0160						-.4030	.2200	.2830

X/LS .9670

PHI

.000 .4060

45.000 .3430

90.000 .2700

135.000 .1720

180.000 -.0420

225.000 .2730

270.000 .2260

315.000 .3760

MACH (2) = 2.000

BETAT (5) = 4.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4740	.3620	.4460	-.0140	.0430	-.0020	-.0170	.0220	-.0070	-.0020	-.0040	-.0740	.2360	.3880	.4270
45.000		.2330	.2540	-.1140	-.0950	-.0490							.2510	.3210	.3220
90.000		.1000	.1090	-.1810	-.1690	-.1510	-.1730	-.0730	-.0590	-.0720	.0030	.0790	.2470	.3380	.1960
135.000		.0520	.0400	-.2110	-.1990	-.1060							.1310	.3880	.3110
180.000	1.4740	.0130	.0490	-.1600	-.1440	-.1550	.0140	.0480	.0000	.0430	.1640	.0130	.0000	.1810	.0280
225.000		-.0070	.1990	-.1840	-.2480	-.2400	-.1350						.0070	.1350	.0640

PHI

DATE 24 SEP 75

TABULATED PRESSURE DATA - 1A9B

PAGE 1797

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS22)

MACH (2) = 2.000

BETAT (5) = 4.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0840	.9010	.2260	-.1260	-.1840	-.1470	.0020			.0870	-.0740	.0380	.0370	.1220
315.000		.2910	.5850	.1130	.0870	.0010	.0360						.1240	.2580	.3410

X/LS .9670

PHI

.000	.4140
45.000	.2990
90.000	.1390
135.000	.1700
180.000	.2820
225.000	.1330
270.000	.1820
315.000	.3380

MACH (2) = 2.000

BETAT (6) = 6.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4130	.3410	.4400	-.0230	.0270	-.0090	-.0110	.0110	-.0190	.0040	-.0090	-.1040	.2130	.3350	.3930
45.000		.1860	.2120	-.1250	-.1060	-.0790							.2340	.3020	.3210
90.000		.0530	.0780	-.1880	-.1810	-.1710	-.1790	-.0880	-.1000	-.0770	.0010	.0540	.2660	.4460	.2510
135.000		.0190	.0250	-.2110	-.1980	-.1090							.1620	.4150	.2890
180.000	1.4130	-.0140	.0320	-.1670	-.1480	-.1630	.0220	.0300	-.0170	.0290	.0890	-.0140	-.0420	.1790	.0240
225.000		-.0270	.1660	-.1760	-.2770	-.2550	.0300						.0140	.0880	.1570
270.000		.0710	.8920	.2190	-.1210	-.1750	-.1340	-.0150			.0510	-.0940	.0120	.0600	.1030
315.000		.2840	.5370	.1290	.0880	.0110	.0720						.1530	.3790	.4220

X/LS .9670

PHI

.000	.3880
45.000	.3240
90.000	.1800
135.000	.2130
180.000	.2870
225.000	.1170
270.000	.1500
315.000	.4020

AMES 97-707 1A9 O2A + S3 + T9 SRM BOOSTER

(RBO622)

MACH (2) = 2.000

BETAT (7) = 8.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3610	.3210	.4360	-.0320	.0070	-.0130	.0040	.0030	-.0150	.0470	-.0450	-.0010	.2430	.3910	.4720
45.000		.1530	.1750	-.1430	-.1310	-.1070							.2760	.3030	.3080
90.000		.0240	.0390	-.2060	-.1990	-.1930	-.1480	-.1140	-.1480	-.0640	.0450	.0920	.2790	.4360	.2150
135.000		-.0060	.0010	-.2200	-.2020	-.1120							.0450	.3030	.2040
180.000	1.3610	-.0350	.0130	-.1840	-.1570	-.1770	.0210	-.0060	-.0450	-.0020	.1060	.0130	-.0870	.0790	.1440
225.000		-.0410	.1370	-.1610	-.2630	-.2550	.0690						-.0240	.0300	.2030
270.000		.0720	.8820	.2090	-.1180	-.1680	-.0920	-.0800			.0490	-.0960	.0580	.0760	.1390
315.000		.2720	.4710	.1240	.0870	.0250	.0840						.2690	.4910	.3360

X/LS .9670

PHI

.000	.4740
45.000	.2820
90.000	.1360
135.000	.1850
180.000	.3000
225.000	.0480
270.000	.2040
315.000	.3620

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 1799

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RDS23) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.400

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5050	.0940	.2130	-.2490	-.2100	-.2450	-.3200	-.2580	-.3680	-.1740	-.0950	-.1640	.0400	.0610	-.0610
45.000		.1670	.2070	-.2430	-.2020	-.1280							-.0050	.0410	.0430
90.000		.3270	.3960	-.1820	-.1170	-.0760	-.0650	-.0750	-.2050	-.2110	-.2130	-.2680	-.0310	.1880	.3590
135.000		.4720	.5630	-.1140	-.0310	.0180							-.1630	.1360	.6400
180.000	1.5050	.4660	.6320	-.1000	-.0110	.1200	.2260	.2060	.0160	.0940	.1740	-.1030	-.2730	.0170	.6570
225.000		.3320	.7270	-.0780	-.1010	.1580	.2380						-.0950	.0340	.4230
270.000		.1430	.7390	.0060	-.3680	-.2740	-.1580	-.1790			-.1190	-.2370	-.0030	.0110	.0240
315.000		.0890	.1420	-.3610	-.4830	-.4520	-.2980						-.0420	-.0440	.0170

X/LS .9670

PHI

.000 - .0390
 45.000 .0640
 90.000 .3430
 135.000 .5470
 180.000 .4770
 225.000 .1700
 270.000 .1670
 315.000 .0020

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4860	.0620	.1900	-.2570	-.2240	-.2600	-.3190	-.2330	-.3540	-.1970	-.1120	-.1560	.0340	.0570	-.0330
45.000		.1390	.1570	-.2610	-.2160	-.1450							-.0200	.0390	.0400
90.000		.2870	.3430	-.2030	-.1500	-.1180	-.1000	-.1330	-.2500	-.2620	-.2000	-.2570	-.0520	.1530	.3430
135.000		.4310	.5240	-.1340	-.0520	.0440							-.1780	.1200	.5920
180.000	1.4860	.4420	.6220	-.1040	-.0220	.1680	.1830	.1620	.0050	.0430	.1240	-.1300	-.2860	.0160	.6020
225.000		.3150	.7360	-.0720	-.1000	.1610	.1910						-.0740	.0770	.3830
270.000		.1190	.7300	.0010	-.3710	-.2490	-.1820	-.1060			-.1020	-.2230	.0180	-.0400	.0040
315.000		.0440	.1140	-.3740	-.5030	-.4770	-.2430						-.0210	-.0240	.0820

X/LS .9670

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS23)

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	-.0320
45.000	.0560
90.000	.3090
135.000	.4950
180.000	.4250
225.000	.0900
270.000	.1410
315.000	.0950

MACH (1) = 1.555

BETAT (3) = -4.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4620	.0400	.1640	-.2690	-.2390	-.2640	-.3390	-.2750	-.3190	-.2800	-.1590	-.1650	-.0080	.0330	-.0720
45.000		.1080	.1130	-.2780	-.2340	-.1430							-.0200	.0220	.0260
90.000		.2350	.2900	-.2260	-.1790	-.1310	-.1510	-.1670	-.2860	-.2980	-.1990	-.2440	-.0170	.1470	.3100
135.000		.3860	.4980	-.1510	-.0800	.0380							-.2090	.0830	.5360
180.000	1.4620	.4190	.6180	-.1090	-.0250	.1650	.1490	.1230	-.0240	-.0010	.0940	-.1670	-.2430	.0590	.5490
225.000		.2060	.7460	-.0700	-.0000	.1600	.1570						-.0410	.1320	.3110
270.000		.1000	.7290	-.0010	-.3690	-.2140	-.2000	-.1080			-.0430	-.2090	.0270	-.0990	.0080
315.000		.0040	.0980	-.3860	-.5070	-.4260	-.2100						.0310	.0420	.1190

X/LS .9670

PHI

.000	-.0090
45.000	.0570
90.000	.2800
135.000	.4480
180.000	.3850
225.000	.0280
270.000	.1110
315.000	.1910

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1001

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS23)

MACH (1) = 1.555

BETAT (4) = -.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4110	-.0070	.1340	-.2770	-.2570	-.2700	-.2230	-.1030	-.0160	-.0560	-.0400	-.1680	-.1630	.0970	-.0970
45.000		.0530	.0640	-.2970	-.2420	-.1480							.0630	.0110	.0180
90.000		.1500	.1970	-.2640	-.2270	-.1730	-.2170	-.2360	-.3460	-.2020	-.1990	-.1650	-.0370	.0770	.2480
135.000		.3050	.4110	-.1820	-.1220	-.0290							-.1580	.0820	.4420
180.000	1.4110	.3820	.6020	-.1110	.0070	.1330	.1020	.0620	-.1110	-.0530	.0210	-.2530	-.1810	.1360	.4700
225.000		.2760	.7550	-.0570	-.0300	.1860	.1140						-.0580	.0860	.1460
270.000		.0620	.6920	-.0110	-.3500	-.1950	-.2050	-.1680			.0360	-.2130	-.0700	-.1380	.0410
315.000		-.0500	.0790	-.3880	-.5120	-.4660	-.2240						-.0250	.0890	.0570

X/LS .9670

PHI

.000	-.0590
45.000	.1530
90.000	.3500
135.000	.3770
180.000	.3110
225.000	-.0800
270.000	.1070
315.000	.2870

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3600	-.0580	.1020	-.3090	-.2710	-.2690	-.1200	-.0070	-.0610	-.0530	.0270	-.1170	-.1560	.2720	.2160
45.000		.0020	.0590	-.3180	-.2550	-.1420							.0660	.0130	.1190
90.000		.0550	.1150	-.3000	-.2680	-.2100	-.2570	-.2880	-.2310	-.1940	-.0530	-.1090	.0490	.1110	.2170
135.000		.2060	.3140	-.2210	-.1830	-.0920							.0690	.1970	.4660
180.000	1.3600	.3290	.5510	-.1340	.0490	.0960	.0120	.0120	-.1650	-.1200	-.1270	-.2250	.0560	.2690	.4070
225.000		.2540	.7040	-.0710	.0480	.2080	.0500						.0170	.0300	-.0860
270.000		.0670	.6700	-.0150	-.3270	-.1820	-.1810	-.2190			.0200	-.1980	-.0430	-.1140	-.0110
315.000		-.0840	.0830	-.3800	-.4970	-.4780	-.0970						-.0110	.1290	.2710

X/LS .9670

PHI

.000	.2640
45.000	.1180
90.000	.2520
135.000	.3970
180.000	.2800

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0523)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0720

270.000 .0790

315.000 .4080

MACH (1) = 1.555

BETAT (6) = 8.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2900	-.0770	.1050	-.3130	-.2900	-.2560	-.0260	.0220	.0150	-.0280	.0290	-.1470	-.0570	.2650	.3010
45.000		-.0420	.0360	-.3360	-.2560	-.1210							.0650	.2490	-.0550
90.000		-.0070	.0550	-.3310	-.3020	-.2370	-.2580	-.1290	-.1800	-.1230	-.0680	-.1380	.0550	.0600	.1440
135.000		.1490	.2620	-.2560	-.2000	-.1690							-.0140	.0860	.3390
180.000	1.2900	.3190	.5780	-.1370	.0950	.0520	-.0430	-.0180	-.1660	-.1080	-.1450	-.2780	.0230	.3260	.3410
225.000		.3470	.7280	-.0650	.1690	.1720	-.0190						-.0230	.0750	-.1550
270.000		.2470	.6750	-.0270	-.3010	-.1990	-.1020	-.1910			-.0310	-.2160	-.1030	-.1190	-.0400
315.000		-.0390	.1110	-.3810	-.4740	-.4490	-.0480						-.0030	.1030	.3500

PHI

X/LS .9670

PHI

.000 .4040

45.000 .0500

90.000 .1480

135.000 .2620

180.000 .1880

225.000 -.1750

270.000 .0530

315.000 .3460

MACH (2) = 2.000

BETAT (1) = -8.380

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7340	.1660	.2020	-.1030	-.0590	-.0960	-.1960	-.1900	-.1630	-.2000	-.1380	-.1200	-.0660	.0430	-.0550
45.000		.2440	.2170	-.1300	-.1230	-.0580							-.0310	.0270	.0090
90.000		.3790	.4050	-.0460	-.0240	-.0020	-.0390	-.0210	-.0720	-.1200	-.0960	-.1440	-.1080	.1070	.1290
135.000		.5070	.5150	.0100	.0670	.0990							-.0400	.2440	.1570
180.000	1.7340	.5100	.5580	.0870	.1250	.0740	.2210	.2380	.1020	.1140	.2600	.0590	-.0860	.1710	.1420
225.000		.3570	.8890	.1280	.0730	-.0240	.2800						-.2030	-.0760	-.1360

PHI

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RDS23)

MACH (2) = 2.000

BETAT (1) = -8.380

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1830	1.0130	.2610	-.1420	-.2070	-.0180	-.0700			.0870	-.2540	-.1730	-.1350	-.0080
315.000		.1080	.3140	-.1540	-.2750	-.3020	-.1290						-.0860	-.0860	-.0380

X/LS .9670

PHI

.000	-.0940
45.000	-.0010
90.000	.1450
135.000	.5660
180.000	.5340
225.000	.0070
270.000	.1390
315.000	-.0410

MACH (2) = 2.000

BETAT (2) = -6.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7020	.1360	.1730	-.1180	-.0800	-.1120	-.2010	-.2070	-.1730	-.1780	-.1460	-.1390	-.0440	.0240	-.0230
45.000		.2130	.1790	-.1480	-.1420	-.0640							-.0290	.0120	.0120
90.000		.3320	.3480	-.0770	-.0580	-.0330	-.0630	-.0650	-.1080	-.1410	-.1300	-.1730	-.1060	.0600	.0760
135.000		.4710	.4710	-.0160	.0340	.0620							-.0710	.1820	.1050
180.000	1.7020	.4950	.5520	.0770	.1090	.0540	.1880	.2000	.0670	.0860	.1600	.0190	-.1120	.1260	.1760
225.000		.3460	.8780	.1280	.0720	-.0230	.2100						-.2030	-.0850	-.1510
270.000		.1650	.9910	.2570	-.1450	-.2000	-.0460	-.0800			.0910	-.2510	-.1500	-.0700	.0140
315.000		.0850	.2830	-.1640	-.2810	-.3050	-.1670						-.0650	-.0540	-.0160

X/LS .9670

PHI

.000	-.0480
45.000	-.0030
90.000	.1010
135.000	.5140
180.000	.4790
225.000	.0870
270.000	.1530
315.000	-.0220

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS23)

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6600	.1020	.1330	-.1270	-.0910	-.1260	-.2000	-.2180	-.1870	-.1750	-.1460	-.1360	-.0260	.0200	-.0540
45.000		.1710	.1440	-.1590	-.1520	-.0680							-.0250	-.0050	.0140
90.000		.2730	.2930	-.0960	-.0780	-.0600	-.0710	-.1000	-.1270	-.1660	-.1610	-.2000	-.0640	.0260	.0490
135.000		.4170	.4280	-.0310	.0100	.0390							-.1020	.1230	.0590
180.000	1.6600	.4690	.5230	.0680	.0980	.0380	.1420	.1600	.0410	.0510	.1080	-.0350	-.1320	.0860	.1200
225.000		.3380	.9130	.1340	.0660	-.0280	.1910						-.1340	-.0450	-.0620
270.000		.1530	.9970	.2550	-.1490	-.2000	-.0520	-.0960			.0850	-.1950	-.0560	.0240	.0620
315.000		.0630	.2590	-.1730	-.2880	-.3060	-.1820						-.0230	-.0060	.0680

X/LS .9670

PHI

.000	-.0780
45.000	.0010
90.000	.0790
135.000	.4620
180.000	.4460
225.000	.1590
270.000	.1210
315.000	.0810

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5540	.0470	.0800	-.1460	-.1280	-.1490	-.1930	-.1770	-.2020	-.1500	-.1320	-.1220	-.1150	.1950	-.0940
45.000		.1060	.0850	-.1870	-.1760	-.0770							-.0010	.0220	-.0210
90.000		.1740	.1960	-.1410	-.1250	-.1010	-.1130	-.1640	-.2250	-.1800	-.1220	-.1830	-.0700	.0040	.0200
135.000		.3170	.3350	-.0760	-.0370	-.0130							-.1800	.0010	-.0530
180.000	1.5540	.4140	.4770	.0460	.0740	.0290	.0780	.0960	.0090	-.0100	.0350	-.1140	-.1850	-.0070	.2900
225.000		.3060	.9110	.1290	.0640	.0180	.1320						-.0940	.0000	.1310
270.000		.1110	.9790	.2410	-.1520	-.1900	-.0830	-.0370			.0280	-.1270	-.0310	-.0590	.0050
315.000		.0120	.2230	-.1860	-.2960	-.3150	-.2320						-.0120	.0790	.0630

X/LS .9670

PHI

.000	-.1390
45.000	-.0300
90.000	.0230
135.000	.3530
180.000	.3950

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBOS23)

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2590

270.000 .1100

315.000 .1270

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4700	.0140	.0620	-.1430	-.1480	-.1670	-.1530	-.0730	.0060	-.0270	-.0370	-.0810	-.1090	.1970	.2130
45.000		.0590	.0420	-.2040	-.1930	-.0910							-.0420	.1070	-.0990
90.000		.1120	.1170	-.1750	-.1630	-.1440	-.1820	-.2310	-.2000	-.1640	-.1310	-.1450	-.0570	-.0260	-.0370
135.000		.2550	.2620	-.1070	-.0730	-.0640							-.0950	-.0450	.0990
180.000	1.4700	.3770	.4810	.0220	.0480	.2230	.0240	.0730	-.0310	-.0400	.0120	-.1860	-.2040	-.0820	.2710
225.000		.2880	.7930	.1080	.0780	.2620	.0800								
270.000		.0850	.9160	.2320	-.1460	-.1410	-.1070	-.0110			-.0100	-.1660	-.0590	-.0210	.0270
315.000		-.0120	.2150	-.1840	-.2890	-.3150	-.2500						-.0780	.0230	.0300

X/LS .9670

PHI

.000 .1770

45.000 -.1300

90.000 .0440

135.000 .2200

180.000 .3080

225.000 .0570

270.000 .1460

315.000 .0800

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4280	-.0080	.0410	-.1560	-.1540	-.1750	-.1120	-.0400	-.0040	-.0330	-.0390	-.0780	-.1000	.2010	.1860
45.000		.0260	.0230	-.2110	-.1990	-.1000							-.1220	.1320	.1870
90.000		.0660	.0830	-.1910	-.1780	-.1720	-.2200	-.2430	-.2070	-.1860	-.1060	-.1430	-.0670	.0320	-.0090
135.000		.2090	.2340	-.1130	-.0940	-.0690							-.0900	-.0110	.0810
180.000	1.4280	.3590	.5410	-.0040	.0340	.2130	-.0050	.0500	-.0430	-.0500	-.0130	-.2130	-.1160	-.0130	.1710
225.000		.2850	.6010	.1020	.0830	.2490	.0650						-.1370	-.0140	.1710

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBOS23)

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0790	.8830	.2200	-.1430	-.0850	-.1200	-.0140			-.0120	-.1950	-.0810	-.0560	.0590
315.000		-.0280	.1880	-.1830	-.2880	-.3130	-.2520						-.1350	-.0230	-.0210

X/LS .9670

PHI

.000	.2390
45.000	-.0160
90.000	.2160
135.000	.1400
180.000	.2110
225.000	.0400
270.000	.1720
315.000	.3880

MACH (2) = 2.000

BETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3680	-.0290	.0140	-.2000	-.1700	-.1830	-.0890	-.0180	-.0230	-.0320	.0020	-.0400	-.0480	.2460	.1990
45.000		.0000	-.0010	-.2290	-.2120	-.1050							-.0990	.1770	.1580
90.000		.0320	.0400	-.2170	-.2070	-.1960	-.2260	-.2120	-.2010	-.1770	-.0470	-.1080	-.0010	.0800	-.0010
135.000		.1720	.1930	-.1410	-.1290	-.0640							-.0800	-.0730	.1650
180.000	1.3680	.3410	.4860	-.0230	.0300	.2060	.0190	.0270	-.0630	-.0920	-.0500	-.2030	-.0670	.0590	.2560
225.000		.2770	.4590	.0850	.0980	.2370	.0770						-.0890	-.0210	-.0050
270.000		.0670	.8520	.1950	-.1310	-.0610	-.1440	-.0320			-.0070	-.1890	-.0850	-.0920	.0500
315.000		-.0410	.1430	-.1880	-.2780	-.3060	-.2420						-.1630	-.0910	-.0710

X/LS .9670

PHI

.000	.1850
45.000	.0960
90.000	.0060
135.000	.1900
180.000	.2770
225.000	-.0860
270.000	.1960
315.000	.4570

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1807

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS24) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5370	.1630	.3080	-.2180	-.1660	-.1990	-.2410	-.0750	-.0520	-.0620	-.0090	-.1000	.0420	.0850	.0390
45.000		.2600	.2920	-.2050	-.1440	-.0390							.0390	.2110	.1950
90.000		.3680	.4090	-.1650	-.0960	-.0290	-.0160	.0120	-.0950	-.0800	.0110	-.0880	.0730	.3020	.2640
135.000		.4100	.4910	-.1320	-.0640	-.0090							-.0080	.2420	.5470
180.000	1.5370	.3440	.5260	-.1360	-.0710	-.1040	.1940	.2290	.0300	.0800	.2270	-.0530	-.2060	.0520	.6390
225.000		.2520	.6210	-.1290	-.1880	-.2360	.2280						-.0600	.0330	.4300
270.000		.1800	.8180	.0400	-.3860	-.3600	-.1610	-.1430			-.0470	-.2150	.0380	.0230	.0890
315.000		.1370	.3330	-.2660	-.3790	-.2470	-.0690						.0620	-.0100	.0610

X/LS .9670

PHI

.000 .0130
 45.000 .2010
 90.000 .4110
 135.000 .5510
 180.000 .5080
 225.000 .2390
 270.000 .1810
 315.000 .0990

MACH (1) = 1.555

BETAT (2) = -6.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5170	.1290	.2890	-.2260	-.1790	-.2110	-.2280	-.0510	-.0460	-.0670	-.0340	-.1300	.0260	.0810	.0510
45.000		.2230	.2440	-.2210	-.1620	-.0600							.0410	.1990	.1910
90.000		.3170	.3540	-.1880	-.1210	-.0620	-.0010	-.0420	-.1400	-.0770	-.0050	-.0870	.0700	.2790	.2390
135.000		.3640	.4480	-.1460	-.0850	-.0350							-.0210	.2310	.5520
180.000	1.5170	.3170	.5110	-.1430	-.0810	-.1140	.1580	.1940	.0030	.0520	.1820	-.0670	-.1950	.0960	.6420
225.000		.2250	.6220	-.1280	-.1890	-.2280	.1890						-.0200	.0930	.4350
270.000		.1470	.8130	.0360	-.3870	-.4190	-.1810	-.0060			.0000	-.1720	.0550	-.0100	.1110
315.000		.1040	.3130	-.2750	-.3870	-.2630	-.1020						.0920	.0280	.0930

X/LS .9670

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RDS24)

MACH (1) = 1.555

BETAT (2) = -6.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.0360
45.000	.1820
90.000	.3770
135.000	.5160
180.000	.4580
225.000	.1410
270.000	.2130
315.000	.1480

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4960	.1080	.2760	-.2260	-.1930	-.2190	-.2000	-.0350	-.0410	-.0730	-.0430	-.1210	.0340	.0870	.0790
45.000		.1860	.2070	-.2360	-.1780	-.0680							.0900	.2280	.2010
90.000		.2730	.3050	-.2100	-.1470	-.0790	-.0360	-.0620	-.1730	-.0830	-.0410	-.0990	.0870	.2790	.2330
135.000		.3260	.4060	-.1640	-.1030	-.0550							-.0340	.2140	.5450
180.000	1.4960	.2960	.4990	-.1470	-.0800	.0130	.0830	.1730	-.0420	-.0010	.1650	-.0840	-.0680	.1260	.6230
225.000		.2120	.6240	-.1260	-.1870	-.0010	.1510						.0100	.1490	.3870
270.000		.1260	.8110	.0360	-.3870	-.4100	-.2210	.0070			.0380	-.1470	.0840	-.0380	.0930
315.000		.0780	.3070	-.2790	-.3930	-.3470	-.1460						.1660	.0780	.0430

X/LS .9670

PHI

.000	.0720
45.000	.1940
90.000	.3710
135.000	.4740
180.000	.4100
225.000	.0760
270.000	.1920
315.000	.1250

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1809

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBO524)

MACH (1) = 1.555

BETAT (4) = -.150

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4510	.0640	.2370	-.2310	-.2120	-.2230	-.1200	.0130	-.0270	-.0710	-.0390	-.1300	.0440	.1030	.1190
45.000		.1270	.1500	-.2600	-.2030	-.0840							.1010	.2120	.1910
90.000		.1910	.2090	-.2500	-.1930	-.1100	-.0780	-.0960	-.1050	-.1060	-.0500	-.0880	.1240	.2490	.2170
135.000		.2470	.3390	-.1980	-.1400	-.0360							-.0230	.1540	.4910
180.000	1.4510	.2530	.4730	-.1490	-.0940	.0610	-.0580	.0880	-.1070	-.0610	.1040	-.1330	-.0650	.0710	.5470
225.000		.1870	.6260	-.1130	-.1520	.0480	.0450						-.0040	.1190	.2500
270.000		.0960	.7830	.0310	-.3590	-.2980	-.2870	-.0760			.0740	-.1730	-.0390	-.0640	.0870
315.000		.0410	.2980	-.2730	-.3780	-.3810	-.1650						.0900	.1190	.1440

X/LS .9670

PHI

.000	.1380
45.000	.3080
90.000	.4590
135.000	.4990
180.000	.3280
225.000	-.0570
270.000	.1540
315.000	.1970

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3950	.0240	.2150	-.2620	-.2290	-.2360	-.0190	.0120	-.0350	-.0370	.0590	-.1090	.1510	.3190	.2670
45.000		.0640	.1270	-.2750	-.2090	-.0990							.1590	.1970	.2060
90.000		.1030	.1590	-.2750	-.2210	-.1130	-.1140	-.0830	-.0850	-.1070	.0390	-.0220	.1450	.2280	.2960
135.000		.1630	.2860	-.2240	-.1800	-.0870							.1090	.2600	.4480
180.000	1.3950	.2170	.4560	-.1630	-.1180	.0610	-.0290	.0120	-.1380	-.0880	-.0480	-.1450	.0280	.3560	.4430
225.000		.1680	.6260	-.1120	-.1400	.0860	.0110						.0440	.1640	.0290
270.000		.0770	.7720	.0250	-.3560	-.2640	-.2700	-.0720			.0390	-.1440	-.0150	-.0340	.0750
315.000		.0110	.2910	-.2730	-.3780	-.3210	-.1190						.0620	.2130	.2010

X/LS .9670

PHI

.000	.2730
45.000	.2250
90.000	.3350
135.000	.3950
180.000	.2690

AMES 97-7017 IA9 Q2A + S3 + T9 SRM BOOSTER

(RBOS24)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 -.0410

270.000 .1510

315.000 .3630

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3670	.0030	.2080	-.2600	-.2290	-.2370	.0160	.0010	-.0080	.0270	.0480	-.1210	.1130	.3010	.3180
45.000		.0380	.1170	-.2790	-.2120	-.0940							.2590	.3090	.1920
90.000		.0680	.1180	-.2850	-.2280	-.0880	-.1300	-.0290	-.0170	-.0620	.0130	-.0440	.1300	.2120	.2700
135.000		.1290	.2480	-.2360	-.1920	-.0920							.0790	.2310	.3880
180.000	1.3670	.1950	.4560	-.1620	-.0970	.0520	-.0780	-.0200	-.1460	-.0060	.0170	-.2140	.0330	.2100	.4040
225.000		.1610	.6380	-.1020	-.1130	.1070	-.0300						.0460	.1160	.0270
270.000		.0660	.7770	.0280	-.3540	-.2100	-.1810	-.0790			.0520	-.1760	-.0070	-.0120	.0800
315.000		-.0030	.3050	-.2670	-.3670	-.2530	-.0760						.0710	.2220	.3220

X/LS .9670

PHI

.000 .4010

45.000 .2100

90.000 .2510

135.000 .3460

180.000 .2640

225.000 -.0550

270.000 .1110

315.000 .3780

MACH (1) = 1.555

BETAT (7) = 8.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3400	-.0130	.2050	-.2610	-.2340	-.2380	.0470	.0370	.0320	-.0010	.0110	-.1210	.0770	.2820	.3540
45.000		.0190	.1050	-.2820	-.2180	-.0960							.1520	.3620	.1960
90.000		.0430	.1040	-.2960	-.2420	-.0870	.0000	.0350	-.0660	-.0690	.0260	-.0550	.1090	.1490	.2280
135.000		.1100	.2230	-.2490	-.2180	-.1290							.0460	.1830	.2950
180.000	1.3400	.1920	.4490	-.1630	-.0100	.0230	-.1170	-.0310	-.0970	-.0470	-.0840	-.2130	.0420	.3020	.3600
225.000		.1700	.6430	-.0930	-.0610	.1370	-.0760						.0030	.0960	-.0920

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1811

AMES 97-707-IA9 02A + S3 + T9 SRM BOOSTER

(RBOC24)

MACH (1) = 1.555

BETAT (7) = 8.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0970	.7810	.0300	-.3450	-.2020	-.1250	-.0170			-.0030	-.1900	-.0650	-.0780	.0120
315.000		.0140	.3120	-.2560	-.3530	-.2020	-.0880						.0250	.1900	.3270

X/LS .9670

PHI

.000	.4320
45.000	.2660
90.000	.2220
135.000	.2850
180.000	.1810
225.000	-.1780
270.000	.0500
315.000	.3670

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7670	.2180	.2070	-.0830	-.0220	-.0620	-.1550	-.0570	-.0640	-.0410	-.0490	-.0780	.0440	.0870	.0360
45.000		.3040	.2890	-.0990	-.0800	.0180							.0520	.1850	.1770
90.000		.3960	.4110	-.0350	-.0120	.0090	.0210	.0410	.0200	-.0490	-.0490	-.0640	.0070	.2410	.2690
135.000		.4370	.4390	-.0290	.0150	.0820							.0240	.3160	.2060
180.000	1.7670	.3980	.4040	.0170	.0750	.0200	.1370	.2300	.1120	.1300	.2930	.0930	-.0590	.2070	.0540
225.000		.2810	.7820	.0790	-.0100	-.1080	.1420						-.1780	-.0610	-.1230
270.000		.1910	1.0590	.2860	-.1570	-.2570	-.0400	-.0660			.0740	-.2350	-.1040	-.0300	.1140
315.000		.1570	.4820	-.0670	-.1930	-.2240	-.0270						.0350	.0100	.0520

X/LS .9670

PHI

.000	.0170
45.000	.1620
90.000	.2700
135.000	.1400
180.000	.4810
225.000	.0690
270.000	.1830
315.000	.0590

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER

(RBO624)

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9366
PHI															
.000	1.7290	.1980	.1860	-.0930	-.0340	-.0770	-.1570	-.0740	-.0510	-.0370	-.0460	-.0810	.0180	.0570	.0260
45.000		.2780	.2560	-.1120	-.1010	.0070							.0490	.1780	.1650
90.000		.3590	.3600	-.0620	-.0430	-.0210	.0030	.0220	-.0110	-.0680	-.0820	-.0940	.0440	.2620	.2490
135.000		.4070	.4000	-.0490	-.0060	.0540							-.0070	.2750	.1660
180.000	1.7290	.3810	.3990	.0040	.0660	.0000	.1730	.1930	.0860	.0960	.2400	.0670	-.0820	.1690	.0420
225.000		.2720	.7910	.0870	-.0090	-.1120	.1100						-.1670	-.0570	-.0880
270.000		.1750	1.0640	.2880	-.1590	-.2540	-.0930	-.0840			.0920	-.2280	-.0560	.0330	.1450
315.000		.1400	.4680	-.0700	-.1970	-.2330	-.0550						.0340	.0350	.0250

X/LS .9670

PHI

.000	.0380
45.000	.1600
90.000	.2330
135.000	.1160
180.000	.7400
225.000	.1700
270.000	.2130
315.000	.0600

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9366
PHI															
.000	1.7000	.1690	.1590	-.1070	-.0580	-.0950	-.1620	-.0810	-.0290	-.0350	-.0470	-.0890	.0100	.0490	.0520
45.000		.2340	.2130	-.1330	-.1190	-.0130							.0420	.1650	.1630
90.000		.2990	.3030	-.0880	-.0720	-.0540	-.0210	-.0030	-.0350	-.0960	-.1150	-.0630	.0190	.2310	.2230
135.000		.3570	.3540	-.0730	-.0330	.0290							-.0470	.2150	.1350
180.000	1.7000	.3540	.3700	-.0090	.0380	-.0150	.1430	.1580	.0520	.0530	.1690	.0030	-.1110	.1200	.0160
225.000		.2570	.7610	.0750	-.0230	-.1220	.1140						-.1090	-.0110	-.0270
270.000		.1580	1.0470	.2820	-.1670	-.2590	-.0950	-.1020			.0730	-.1670	.0200	.0620	.1140
315.000		.1200	.4330	-.0830	-.2090	-.2490	-.0680						.0460	.0390	-.0170

X/LS .9670

PHI

.000	.0620
45.000	.1560
90.000	.1960
135.000	.1370
180.000	.4110

AMES 97-707 1A9 CEA + S3 + T9 SRM BOOSTER

(RBO524)

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2320

270.000 .1790

315.000 .0620

MACH (2) = 2.000

BETAT (4) = -.160

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6010	.1110	.1220	-.1210	-.1010	-.1200	-.1490	-.0400	.0060	-.0280	-.0590	-.0740	.0410	.0800	.0850
45.000		.1540	.1540	-.1580	-.1450	-.0360							.0580	.1390	.1650
90.000		.2010	.2220	-.1310	-.1120	-.0820	-.0360	-.0480	-.0950	-.1100	-.0670	-.0860	.0480	.2020	.1770
135.000		.2610	.2730	-.1040	-.0700	-.0210							-.0800	.1550	.0670
180.000	1.6010	.2950	.3320	-.0400	.0150	-.0380	.0700	.0990	.0030	-.0230	.0740	-.0740	-.1540	.0500	.0020
225.000		.2250	.7230	.0690	-.0130	-.1020	.1020						-.0690	.0520	.0410
270.000		.1210	.9820	.2730	-.1630	-.2500	-.1010	-.1140			.0460	-.1290	.0140	-.0330	.0220
315.000		.0780	.3890	-.0900	-.2080	-.2540	-.1170						.0060	.1190	.0610

X/LS .9670

PHI

.000 .0920

45.000 .1640

90.000 .1450

135.000 .2570

180.000 .4100

225.000 .2280

270.000 .1650

315.000 .1510

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5150	.0770	.1120	-.1380	-.0940	-.1380	-.1310	.0140	.0130	-.0160	-.0220	-.0420	-.0150	.1870	.1680
45.000		.1070	.1050	-.1770	-.1630	-.0570							.0000	.2340	.1600
90.000		.1460	.1500	-.1620	-.1460	-.1090	-.0300	-.0830	-.0970	-.0820	-.0540	-.0670	.0520	.1220	.1170
135.000		.2080	.2130	-.1320	-.1020	-.0650							-.0090	.0740	.0070
180.000	1.5150	.2690	.3170	-.0290	.0060	-.0440	.0060	.0380	-.0550	-.0730	.0680	-.1460	-.1520	-.0250	.2820
225.000		.2130	.7190	.0760	.0010	-.0680	.0730						-.0720	.0260	.0460

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBO024)

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000	.0990	.9580	.2740	-.1500	-.2380	-.1090	-.1310				.0280	-.1550	-.0250	-.0270	.0210
315.000	.0590	.3820	-.0800	-.1950	-.2470	-.1630							-.0510	.0570	.0220

X/LS .9670

PHI

.000	.1540
45.000	.1460
90.000	.0910
135.000	.2490
180.000	.2890
225.000	.0870
270.000	.1670
315.000	.1820

MACH (2) = 2.000

BETAT (6) = 5.960

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.4740	.0570	.0930	-.1410	-.1030	-.1470	-.0980	.0210	.0020	-.0180	-.0200	-.0360	-.0040	.1980	.1860
45.000		.0750	.0810	-.1860	-.1660	-.0680							.0650	.3890	.3110
90.000		.1010	.1180	-.1730	-.1630	-.1210	-.0460	-.0930	-.0580	-.1060	-.0550	-.0660	.0560	.1320	.1770
135.000		.1620	.1830	-.1430	-.1160	-.0910							-.0190	.0310	.1950
180.000	1.4740	.2450	.3090	-.0320	-.0020	-.0480	-.0210	.0000	-.0760	-.0760	.0290	-.1720	-.0940	-.0070	.2590
225.000		.2090	.7040	.0710	.0100	.0190	.0580						-.0670	.0280	.1030
270.000		.0950	.9360	.2690	-.1410	-.2310	-.1150	-.1330			.0120	-.1780	-.0610	-.0760	.0630
315.000		.0520	.3880	-.0740	-.1880	-.2450	-.1610						-.1220	-.0160	.0740

X/LS .9670

PHI

.000	.1840
45.000	.2830
90.000	.1880
135.000	.2960
180.000	.2470
225.000	.0730
270.000	.1850
315.000	.5490

PAGE 1815

(RBO524)

BETAT (7) = 8.910

DEPENDENT VARIABLE CP

.000	.2030
45.000	.2130
90.000	.0340
135.000	.2270
180.000	.2030
225.000	-.0940
270.000	.0170
315.000	.5530

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBO525) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDEFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.320

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5500	.2420	.4120	-.1750	-.1240	-.1490	-.1200	.0070	.0340	.0040	.0350	-.0490	.1010	.2040	.1650
45.000		.3360	.3950	-.1680	-.1020	.0170							.2210	.3740	.3220
90.000		.3800	.4010	-.1630	-.0880	-.0160	-.0220	.0530	.0680	.0240	.1490	.0630	.2770	.4380	.3510
135.000		.3400	.3920	-.1740	-.1010	-.0440							.1780	.3080	.1340
180.000	1.5500	.2450	.4170	-.1780	-.1220	-.1540	.1410	.1970	.0390	.0750	.3140	-.0110	-.1220	.0770	.5050
225.000		.1890	.4900	-.1930	-.2710	-.3220	.1870						-.0500	.0510	.3710
270.000		.1880	.8370	.0510	-.3770	-.3500	.0310	-.1550			-.0580	-.1670	.0760	.0890	.1780
315.000		.1930	.4900	-.1880	-.2690	-.3130	.0200						.0810	.0540	.0860

X/LS .9670

PHI

.000 .1290
 45.000 .2990
 90.000 .2980
 135.000 .4390
 180.000 .5260
 225.000 .3010
 270.000 .2280
 315.000 .1520

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5270	.2100	.3920	-.1880	-.1340	-.1660	-.1050	.0170	.0290	-.0080	.0180	-.0510	.1450	.2390	.1800
45.000		.2910	.3480	-.1840	-.1200	-.0090							.2180	.3650	.3100
90.000		.3300	.3460	-.1890	-.1180	-.0460	-.0380	.0110	.0450	.0070	.1250	.0570	.2670	.4180	.3260
135.000		.3000	.3350	-.1840	-.1180	-.0670							.1640	.2890	.1110
180.000	1.5270	.2180	.3950	-.1870	-.1350	-.1700	.1160	.1800	.0190	.0390	.2800	-.0160	-.1280	.0740	.5540
225.000		.1620	.4830	-.1960	-.2820	-.3290	.1520						.0260	.1110	.4640
270.000		.1580	.8360	.0500	-.3820	-.3550	-.0140	-.1680			-.0150	-.1330	.0810	.0710	.1310
315.000		.1610	.4760	-.1930	-.2830	-.3230	-.0010						.0750	.0430	.1010

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1817

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R80625)

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.1790
45.000	.2830
90.000	.2570
135.000	.4430
180.000	.4920
225.000	.2340
270.000	.2100
315.000	.1710

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5050	.1860	.3810	-.1950	-.1460	-.1750	-.0980	.0220	.0210	-.0110	.0110	-.0590	.1650	.2530	.2170
45.000		.2560	.2960	-.2010	-.1400	-.0230							.2320	.3680	.3200
90.000		.2800	.2990	-.2120	-.1430	-.0560	-.0600	-.0070	.0340	-.0140	.0860	.0580	.2670	.4040	.3020
135.000		.2630	.2950	-.1950	-.1380	-.0720							.1480	.2750	.0950
180.000	1.5050	.2010	.3910	-.1900	-.1410	-.1730	.0540	.1740	-.0080	.0440	.2360	-.0330	-.0510	.1220	.5740
225.000		.1450	.4880	-.1940	-.2750	-.3250	.1110						.0570	.1740	.4160
270.000		.1380	.8320	.0500	-.3750	-.3550	-.0470	-.1060			.0330	-.1090	.1000	.0080	.1310
315.000		.1410	.4730	-.1950	-.2800	-.3220	-.0130						.0920	.0480	.0840

X/LS .9670

PHI

.000	.1790
45.000	.2820
90.000	.2330
135.000	.4340
180.000	.4450
225.000	.1670
270.000	.2030
315.000	.1820

AMES 97-707 1A9 Q2A + S3 + T9 SRM BOOSTER

(RBOS23)

MACH (1) = 1.555

BETAT (4) = -.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4600	.1470	.3510	-.2040	-.1630	-.1940	-.0620	.0330	.0070	-.0090	.0120	-.0920	.1360	.2380	.2490
45.000		.1890	.2280	-.2170	-.1700	-.0570							.2180	.3210	.3140
90.000		.2020	.2070	-.2490	-.1850	-.0800	-.0170	-.0210	.0210	-.0510	.0740	.0440	.2550	.3630	.2690
135.000		.1930	.2320	-.2120	-.1660	-.1010							.1200	.2310	.2700
180.000	1.4600	.1540	.3700	-.1900	-.1530	-.0510	-.0360	.1200	-.0800	.0060	.1760	-.0830	-.0330	.1010	.5590
225.000		.1110	.4890	-.1850	-.2620	-.0990	-.0280						.0400	.1700	.3110
270.000		.1070	.8170	.0490	-.3600	-.2640	-.1290	-.0700			.0410	-.1380	.0640	.0070	.1480
315.000		.1040	.4720	-.1870	-.2690	-.3110	-.0150						.0620	.0730	.1700

X/LS .9670

PHI

.000	.2810
45.000	.3450
90.000	.3230
135.000	.4990
180.000	.3580
225.000	.0750
270.000	.1980
315.000	.2620

MACH (1) = 1.555

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4130	.1020	.3120	-.2150	-.1800	-.2060	-.0030	.0110	-.0180	-.0220	.0660	-.0590	.2000	.3300	.3800
45.000		.1090	.1940	-.2480	-.1990	-.0880							.2790	.3710	.3370
90.000		.1140	.1430	-.2760	-.1930	-.0970	-.0350	.0280	-.0100	-.0540	.1230	.0730	.2140	.2720	.2430
135.000		.1190	.2440	-.2420	-.1890	-.1250							.1620	.2090	.4380
180.000	1.4130	.1090	.3470	-.2040	-.1710	-.0460	-.0070	.0440	-.0920	-.0540	.0910	-.1120	.0330	.2080	.4290
225.000		.0900	.5020	-.1730	-.2450	-.0430	.0340						.0870	.2770	.1760
270.000		.0890	.8200	.0490	-.3610	-.1840	-.0350	-.0150			.0400	-.1130	.0500	.0870	.2030
315.000		.0870	.4660	-.1870	-.2670	-.2900	.0220						.1140	.2010	.3620

X/LS .9670

PHI

.000	.3980
45.000	.3060
90.000	.2780
135.000	.3530
180.000	.2650

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1019

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS25)

MACH (1) = 1.555

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0030

270.000 .2440

315.000 .3570

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3810	.0910	.3040	-.2180	-.1880	-.2030	-.0020	-.0130	.0090	.0370	.0530	-.0890	.1840	.3340	.4240
45.000		.0850	.1830	-.2590	-.2070	-.0950							.2620	.3310	.3100
90.000		.0900	.1180	-.2790	-.2000	-.0920	-.0370	.0290	.0420	-.0010	.0820	.0220	.1890	.2530	.2510
135.000		.0930	.2050	-.2490	-.1990	-.0600							.1210	.2010	.4080
180.000	1.3810	.0930	.3400	-.2050	-.1710	-.0060	-.0420	.0080	-.0840	-.0200	.0810	-.1400	.0610	.3350	.3960
225.000		.0900	.5080	-.1670	-.2310	.0130	-.0070						.0730	.1910	.0550
270.000		.0930	.8180	.0500	-.3520	-.0900	-.0440	-.0130			.0790	-.1140	-.0010	.0120	.1350
315.000		.0790	.4770	-.1780	-.2500	-.2660	.0200						.1180	.2020	.3160

X/LS .9670

PHI

.000 .4310

45.000 .2860

90.000 .2590

135.000 .3160

180.000 .2350

225.000 -.1030

270.000 .1700

315.000 .4010

MACH (1) = 1.555

BETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3620	.0790	.3090	-.2200	-.1880	-.2060	-.0040	.0230	.0520	.0040	.0020	-.0970	.1960	.3890	.4780
45.000		.0610	.1660	-.2690	-.2220	-.1140							.2260	.2880	.2700
90.000		.0550	.1060	-.2870	-.2220	-.0700	.0780	.0820	-.0010	-.0360	.0420	.0190	.2030	.2490	.1620
135.000		.0640	.1820	-.2680	-.2180	-.0800							.0800	.1640	.3240
180.000	1.3620	.0780	.3400	-.2070	-.1590	-.0090	-.0870	.0880	-.0330	-.0300	-.0340	-.1430	.0520	.3330	.3650
225.000		.0840	.5240	-.1560	-.2080	.0230	-.0570						.0370	.1520	-.0630

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO625)

MACH (1) = 1.555

BETAT (7) = 8.040

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

270.000		.1060	.8260	.0510	-.3510	-.0270	-.0500	.0010			.0030	-.1500	-.0220	-.0050	.0610
315.000		.0840	.4890	-.1700	-.2400	-.2210	.0030					.1290	.3280	.2750	

X/LS .9670

PHI

.000	.4600
45.000	.2400
90.000	.1950
135.000	.2410
180.000	.1790
225.000	-.2130
270.000	.1320
315.000	.3590

MACH (2) = 2.000

BETAT (1) = -8.290

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.7820	.3010	.2690	-.0540	.0230	-.0220	-.1040	.0170	.0090	.0310	.0070	-.0270	.0600	.1620	.1540
45.000		.3680	.3600	-.0660	-.0590	.0390							.1920	.3650	.3420
90.000		.3990	.4150	-.0360	-.0110	.0120	.0460	.0240	.0660	.0450	.0600	.1020	.2570	.4680	.4140
135.000		.3750	.3640	-.0650	-.0380	.0450							.1590	.4410	.2910
180.000	1.7820	.3060	.2820	-.0560	.0280	-.0220	-.1060	.1610	.1260	.1190	.3580	.1410	.0010	.2840	.0790
225.000		.2240	.6340	.0110	-.0900	-.1700	.1560						-.1150	-.0030	-.0800
270.000		.1980	1.0570	.2910	-.1420	-.2700	.1050	.0220			.0680	-.1630	.0000	.0580	.1510
315.000		.2190	.6240	.0100	-.0950	-.1670	-.0090						.0780	.0780	.0610

X/LS .9670

PHI

.000	.1470
45.000	.3180
90.000	.3620
135.000	.1830
180.000	.4010
225.000	.1400
270.000	.2100
315.000	.1340

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1821

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS25)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7500	.2760	.2600	-.0690	.0100	-.0420	-.1110	.0080	.0100	.0260	.0050	-.0340	.0590	.1690	.1710
45.000		.3380	.3200	-.0840	-.0610	.0230							.2010	.3540	.3370
90.000		.3640	.3610	-.0630	-.0420	-.0200	.0290	-.0010	.0440	.0380	.0370	.0770	.2580	.4420	.3810
135.000		.3490	.3250	-.0830	-.0560	.0080							.2030	.3950	.2590
180.000	1.7500	.2890	.2720	-.0680	.0150	-.0450	-.1040	.1750	.1000	.0630	.2980	.1110	-.0080	.2480	.0770
225.000		.2110	.6360	.0160	-.0910	-.1760	.1550						-.0760	-.0120	-.0080
270.000		.1810	1.0600	.2960	-.1420	-.2730	.0810	-.0140			.0780	-.1400	.0710	.0850	.1470
315.000		.2020	.6170	.0100	-.0980	-.1750	-.0270						.0700	.0830	.0710

X/LS .9670

PHI

.000	.1630
45.000	.3100
90.000	.3280
135.000	.1660
180.000	.3800
225.000	.1800
270.000	.1980
315.000	.1330

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7180	.2520	.2470	-.0850	-.0120	-.0570	-.1150	-.0010	.0210	.0210	-.0030	-.0400	.0670	.1780	.1900
45.000		.2940	.2770	-.1050	-.0770	-.0070							.1970	.3400	.3270
90.000		.3070	.3050	-.0900	-.0770	-.0320	.0070	-.0160	.0330	.0280	.0210	.0570	.2390	.3970	.3540
135.000		.2970	.2820	-.1060	-.0660	-.0170							.1310	.3730	.2400
180.000	1.7180	.2570	.2540	-.0830	-.0040	-.0550	.0180	.1540	.0770	.0180	.2690	.0960	-.0430	.1920	.0590
225.000		.1930	.6250	.0100	-.0980	-.1850	.1070						-.0530	.0580	.0400
270.000		.1640	1.0510	.2950	-.1450	-.2780	.0440	-.0310			.0770	-.1150	.0910	.0710	.1290
315.000		.1860	.5980	.0030	-.1050	-.1850	-.0310						.0580	.0770	.0630

X/LS .9670

PHI

.000	.1870
45.000	.2990
90.000	.3040
135.000	.1390
180.000	.3630

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS23)

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2810

270.000 .1820

315.000 .1290

MACH (2) = 2.000

BETAT (4) = -.140

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.6150 .1910 .2070 -.1090 -.0330 -.0830 -.1130 .0120 .0300 .0150 -.0050 -.0290 .0640 .1740 .2030

45.000 .2040 .2060 -.1350 -.1060 -.0280 .1850 .2830 .2930

90.000 .2120 .2200 -.1310 -.1150 -.0630 -.0040 .0070 .0350 .0100 -.0110 .0320 .2190 .3770 .3110

135.000 .2140 .2120 -.1370 -.1030 -.0400 .0620 .2990 .1680

180.000 1.6150 .2040 .2140 -.1110 -.0300 -.0850 .0770 .1200 .0220 -.0050 .2080 .0010 -.0990 .1320 .0180

225.000 .1610 .6010 .0080 -.0970 -.1830 .0710 -.0320 .0810 .0810

270.000 .1280 1.0120 .2950 -.1450 -.2760 .0180 -.0430 .0600 -.1930 .0600 -.0090 .0580

315.000 .1520 .5740 .0000 -.1030 -.1860 -.0310 .0640 .1080 .0740

X/LS .9670

PHI

.000 .2020

45.000 .2780

90.000 .2520

135.000 .0890

180.000 .4110

225.000 .2450

270.000 .1810

315.000 .2160

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .0000 .0341 .0967 .1138 .1422 .1991 .2844 .3697 .4835 .5973 .7110 .8248 .8817 .9044 .9386

PHI

.000 1.5410 .1590 .1970 -.1010 -.0450 -.1000 -.1070 .0160 .0110 -.0060 -.0080 -.0320 .1160 .2480 .2550

45.000 .1530 .1580 -.1550 -.1200 -.0210 .2000 .2660 .2590

90.000 .1500 .1560 -.1560 -.1380 -.0970 -.0240 -.0170 .0320 -.0150 -.0210 .0220 .1620 .2470 .2340

135.000 .1590 .1610 -.1550 -.1200 -.0550 .1280 .2250 .1060

180.000 1.5410 .1690 .2060 -.1040 -.0430 -.0920 .0170 .0570 -.0320 -.0600 .1390 -.0690 -.1100 .0900 .1410

225.000 .1390 .5590 .0100 -.0780 -.1620 .0730 .0030 .1040 -.0010

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1823

AMES 77-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0625)

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.1060	.9440	.2950	-.1370	-.2640	.0140	-.0380			.0540	-.1140	-.0010	-.0260	.0530
315.000		.1330	.5460	.0020	-.0860	-.1740	-.0190						.0450	.1420	.1750

X/LS .9670

PHI

.000	.2670
45.000	.2350
90.000	.1880
135.000	.1140
180.000	.2730
225.000	.0640
270.000	.1480
315.000	.3320

MACH (2) = 2.000

BETAT (6) = 8.020

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4500	.1180	.1720	-.1230	-.0750	-.1230	-.0970	-.0150	-.0360	-.0040	.0270	.0090	.0980	.2760	.3270
45.000		.0840	.0970	-.1820	-.1590	-.0870							.2250	.2940	.2720
90.000		.0780	.0870	-.1850	-.1670	-.1070	-.0020	-.0070	.0090	-.0440	.0310	.0770	.1270	.4040	.2510
135.000		.0910	.1030	-.1800	-.1570	-.1060							.1190	.1790	.0700
180.000	1.4500	.1280	.1890	-.1050	-.0670	-.1070	-.0420	-.0600	-.0910	-.0360	.0590	-.0360	-.0580	.0990	.3340
225.000		.1250	.5360	.0130	-.0630	-.1340	.0840						-.0490	.0290	.0890
270.000		.0940	.8980	.2740	-.1240	-.2460	.0060	-.0570			.0130	-.1430	.0040	.0240	.0290
315.000		.1190	.4990	-.0010	-.0760	-.1560	.0170						-.0070	.1210	.4660

X/LS .9670

PHI

.000	.4640
45.000	.2510
90.000	.1790
135.000	.2410
180.000	.2460
225.000	-.0600
270.000	.2170
315.000	.3050

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R00S26) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5420	.3370	.5190	-.1380	-.0740	-.0930	-.0690	.0330	.0680	.0530	.0830	-.0200	.1330	.2750	.3020
45.000		.4000	.4890	-.1330	-.0630	.0520							.3340	.4550	.4360
90.000		.3680	.4060	-.1650	-.0930	-.0320	-.0400	-.0320	.1150	.0640	.2510	.1520	.4160	.5160	.4240
135.000		.2640	.2950	-.2100	-.1480	-.0950							.3070	.3560	.1620
180.000	1.5420	.1630	.3010	-.2200	-.1700	-.1440	.0260	.0810	.0480	.0750	.3670	.0330	-.0110	.1140	.4140
225.000		.1360	.3240	-.2680	-.2600	-.2430	.0140						-.0220	.1220	.2780
270.000		.1740	.7940	.0340	-.3320	-.2340	.0210	.1090			-.0890	-.1370	.1100	.2180	.3130
315.000		.2530	.6220	-.1230	-.1690	-.2080	-.0050						.1400	.1540	.1720

X/LS .9670

PHI

.000 .2860
 45.000 .4100
 90.000 .3480
 135.000 .3310
 180.000 .4500
 225.000 .2660
 270.000 .3530
 315.000 .2340

MACH (1) = 1.555

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5240	.3050	.5060	-.1440	-.0810	-.1070	-.0680	.0530	.0530	.0380	.0800	-.0040	.2040	.3200	.3090
45.000		.3590	.4430	-.1470	-.0850	.0280							.3150	.4260	.4150
90.000		.3240	.3490	-.1880	-.1230	-.0580	-.0550	-.0190	.0920	.0350	.2200	.1430	.4010	.4900	.3880
135.000		.2320	.2420	-.2260	-.1640	-.1030							.2860	.3390	.1410
180.000	1.5240	.1370	.2790	-.2270	-.1810	-.1510	.0280	.0700	.0260	.0310	.3540	.0110	-.0330	.1060	.4560
225.000		.1080	.3120	-.2740	-.2630	-.2530	.0030						-.0000	.1450	.3990
270.000		.1460	.7950	.0340	-.3260	-.2380	.0100	.1010			-.1000	-.1090	.1240	.1740	.2210
315.000		.2210	.6160	-.1240	-.1730	-.2070	-.0170						.1460	.1140	.1600

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 1825

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0626)

MACH (1) = 1.555

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3150
45.000	.3880
90.000	.3070
135.000	.3370
180.000	.4500
225.000	.2520
270.000	.2830
315.000	.2210

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4980	.2880	.4890	-.1500	-.0920	-.1170	-.0780	.0470	.0340	.0260	.0690	.0210	.2430	.3250	.3090
45.000		.3160	.3950	-.1570	-.1050	-.0020							.3160	.4090	.3990
90.000		.2740	.3000	-.2090	-.1460	-.0700	-.0840	-.0050	.0760	.0080	.1770	.1210	.3920	.4540	.3630
135.000		.1950	.2090	-.2380	-.1750	-.1060							.2750	.3360	.1250
180.000	1.4980	.1140	.2690	-.2270	-.1900	-.1610	.0180	.0690	.0150	.0470	.2990	.0050	-.0300	.1300	.5190
225.000		.0850	.3110	-.2730	-.2840	-.2700	.0130						.0810	.1870	.4260
270.000		.1270	.7910	.0340	-.3520	-.2590	.0160	.0940			-.0680	-.0880	.0990	.0960	.1460
315.000		.2050	.6140	-.1220	-.1730	-.2220	-.0180						.1100	.0800	.1420

X/LS .9670

PHI

.000	.3040
45.000	.3740
90.000	.2820
135.000	.3540
180.000	.4340
225.000	.1850
270.000	.2360
315.000	.2150

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBO026)

MACH (1) = 1.555

BETAT (4) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4560	.2470	.4650	-.1590	-.1080	-.1340	-.0820	.0230	.0090	.0190	.0480	-.0390	.2520	.3620	.3720
45.000		.2430	.3270	-.1960	-.1470	-.0560							.2830	.3660	.3810
90.000		.1890	.2130	-.2470	-.1900	-.1110	-.0950	-.0040	.0490	-.0190	.1170	.0770	.3520	.3410	.3430
135.000		.1290	.1530	-.2590	-.1950	-.1240							.2290	.3090	.0930
180.000	1.4560	.0670	.2460	-.2290	-.2070	-.1850	-.0170	.0400	-.0520	.0100	.2090	-.0520	-.0020	.1190	.4930
225.000		.0410	.3070	-.2710	-.3480	-.2880	.0230						.0850	.1750	.3160
270.000		.0990	.7850	.0330	-.3550	-.2700	.0360	.0510			.0650	-.1030	.0650	.0610	.1830
315.000		.1840	.6190	-.1180	-.1640	-.2120	.0130						.1510	.1620	.2680

X/LS .9670

PHI

.000	.3900
45.000	.3900
90.000	.2860
135.000	.4410
180.000	.4040
225.000	.1160
270.000	.2450
315.000	.3470

MACH (1) = 1.555

BETAT (5) = 3.960

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4020	.2140	.4400	-.1710	-.1250	-.1460	-.0240	-.0120	-.0240	.0080	.0640	-.0210	.3010	.4930	.5050
45.000		.1630	.2760	-.2300	-.1840	-.1160							.2750	.3620	.3600
90.000		.0970	.1340	-.2800	-.2220	-.1170	-.0370	.0160	.0060	-.0340	.1260	.0870	.3600	.3120	.2420
135.000		.0610	.1360	-.2690	-.1930	-.1250							.2150	.2780	.3770
180.000	1.4020	.0210	.2600	-.2500	-.2160	-.1980	.0030	-.0120	-.0400	-.0250	.1850	-.0550	.0770	.2090	.4080
225.000		.0080	.3390	-.2550	-.3440	-.2600	.0440						.1060	.2540	.1580
270.000		.0790	.7980	.0380	-.3530	-.2510	.0450	-.0170			.0870	-.0850	.0740	.1060	.2270
315.000		.1760	.6220	-.1140	-.1540	-.1850	.0620						.2610	.4200	.3180

X/LS .9670

PHI

.000	.4730
45.000	.3170
90.000	.2440
135.000	.3470
180.000	.2500

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1827

AMES 97-707 IA9-02A + S3 + T9 SRM-BOOSTER

(RBOS26)

MACH (1) = 1.555

BETAT (5) = 3.960

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0300

270.000 .2790

315.000 .3590

MACH (1) = 1.555

BETAT (6) = 6.010

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3720	.1990	.4280	-.1750	-.1360	-.1430	-.0250	-.0520	-.0230	.0760	.0650	-.1020	.3560	.5110	.5080
45.000		.1270	.2370	-.2440	-.2030	-.1380							.2340	.3410	.3610
90.000		.0700	.1110	-.2890	-.2290	-.1220	-.0150	.0020	.0340	-.0070	.0850	.0510	.3320	.2900	.1870
135.000		.0370	.1300	-.2760	-.2030	-.1260							.1770	.2440	.3850
180.000	1.3720	.0020	.2420	-.2520	-.2220	-.0740	-.0260	.0500	-.0220	.0570	.1290	-.1030	.0770	.2720	.3740
225.000		-.0060	.3360	-.2540	-.3440	-.1950	.0240						.0970	.1900	.0530
270.000		.0710	.7970	.0380	-.3490	-.2200	.0240	-.0740			.0980	-.0810	.0280	.0510	.1560
315.000		.1700	.6260	-.1100	-.1410	-.1620	.0660						.2180	.3510	.4070

X/LS .9670

PHI

.000	.4900
45.000	.3270
90.000	.1660
135.000	.3210
180.000	.2070
225.000	-.1000
270.000	.1980
315.000	.4250

MACH (1) = 1.555

BETAT (7) = 8.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.3460	.1840	.4130	-.1770	-.1370	-.1370	-.0510	.0370	.0570	.0330	.0140	-.1140	.3510	.4840	.4900
45.000		.0970	.1980	-.2530	-.2240	-.1690							.2390	.3180	.3050
90.000		.0380	.0900	-.3010	-.2390	-.1240	.0780	.0340	-.0080	-.0360	.0620	.0470	.2830	.3190	.1760
135.000		.0070	.1200	-.2800	-.2150	-.0920							.1320	.2010	.3190
180.000	1.3460	-.0130	.2360	-.2490	-.2260	-.0310	-.0470	.1230	-.0120	-.0100	.0250	-.1270	.0670	.2570	.3380
225.000		-.0070	.3460	-.2470	-.3360	-.0860	-.0150						.0500	.1710	-.0130

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0526)

MACH (1) = 1.555

DETAT (7) = 8.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0700	.7930	.0400	-.3490	-.1600	-.0120	-.1090			.0400	-.1070	.0030	.0460	.1100
315.000		.1670	.6160	-.1120	-.1300	-.1140	.0570						.1560	.3400	.3840

PHI

X/LS .9670

PHI

.000	.4540
45.000	.2570
90.000	.1790
135.000	.2470
180.000	.1780
225.000	-.0940
270.000	.1280
315.000	.3980

MACH (2) = 2.000

DETAT (1) = -8.280

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7810	.3950	.3840	.0070	.0670	.0250	-.0450	-.0060	.0620	.0590	.0820	.0270	.1710	.2760	.2780
45.000		.4290	.4290	-.0280	.0080	.1040							.3460	.4690	.4660
90.000		.3940	.4110	-.0340	-.0140	.0100	.0270	.0110	.0520	.0790	.0950	.1950	.4390	.5540	.4800
135.000		.3160	.3000	-.0940	-.0770	-.0170							.2240	.4820	.3350
180.000	1.7810	.2340	.2110	-.0900	-.0200	-.0620	-.1470	-.0390	.1450	.1070	.3880	.2000	.0480	.3420	.0960
225.000		.1710	.4690	-.0580	-.1710	-.2330	.0890						-.0910	-.0150	-.1070
270.000		.1960	1.0050	.2760	-.1280	-.2580	.0160	.1490			.0530	-.1360	-.0260	-.0090	.1650
315.000		.2810	.7360	.0760	.0010	-.1000	-.0450						.1110	.1280	.0780

PHI

X/LS .9670

PHI

.000	.2580
45.000	.4340
90.000	.4190
135.000	.2200
180.000	-.0040
225.000	.1320
270.000	.2600
315.000	.1700

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS26)

MACH (2) = 2.000

BETAT (2) = -6.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7480	.3750	.3710	-.0170	.0540	.0090	-.0500	-.0100	.0550	.0470	.0670	.0170	.1760	.2870	.2910
45.000		.4010	.3870	-.0500	-.0180	.1010							.3280	.4450	.4400
90.000		.3540	.3570	-.0640	-.0460	-.0190	.0060	-.0160	.0490	.0730	.0630	.1730	.4120	.5110	.4500
135.000		.2900	.2620	-.1180	-.1020	-.0230							.2050	.5240	.3300
180.000	1.7480	.2120	.1910	-.1060	-.0400	-.0770	-.1480	.0220	.1210	.0920	.3540	.1650	.0410	.3150	.0800
225.000		.1530	.4580	-.0630	-.1730	-.2410	.0840						-.0810	-.0260	-.0560
270.000		.1750	1.0000	.2770	-.1270	-.2540	.0000	.1270			.0690	-.1120	.0150	.0490	.1650
315.000		.2700	.7350	.0770	.0030	-.1040	-.0610						.1070	.1150	.0920

X/LS .9670

PHI

.000	.2720
45.000	.4140
90.000	.3900
135.000	.2080
180.000	-.0190
225.000	.1420
270.000	.2700
315.000	.1770

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7070	.3440	.3550	-.0270	.0410	-.0130	-.0590	-.0140	.0470	.0450	.0500	.0070	.1910	.3010	.3070
45.000		.3460	.3420	-.0770	-.0440	.0760							.3020	.4090	.4160
90.000		.2980	.2980	-.0910	-.0690	-.0460	-.0160	-.0360	.0510	.0610	.0380	.1430	.3840	.4600	.4120
135.000		.2430	.2240	-.1320	-.1150	-.0380							.2370	.5550	.3110
180.000	1.7070	.1830	.1590	-.1110	-.0570	-.0910	-.1560	.0930	.0980	.0600	.3050	.1350	.0330	.2630	.0750
225.000		.1350	.4380	-.0750	-.1880	-.2590	.1020						-.0510	.0350	-.0010
270.000		.1610	.9950	.2760	-.1310	-.2590	.0100	.1150			.0970	-.0960	.0510	.0830	.1360
315.000		.2560	.7310	.0710	-.0050	-.1130	-.0740						.1090	.1020	.1170

X/LS .9670

PHI

.000	.2870
45.000	.3900
90.000	.3590
135.000	.1890
180.000	-.0320

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(R00626)

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2070

270.000 .2360

315.000 .1890

MACH (2) = 2.000

BETAT (4) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.6060	.2870	.3130	-.0560	.0140	-.0330	-.0600	.0070	.0240	.0330	.0260	-.0220	.1990	.3180	.3230
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45.000		.2500	.2610	-.1110	-.0810	.0190							.2540	.3360	.3490
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90.000		.1980	.2120	-.1370	-.1200	-.0800	-.0460	-.0520	.0500	.0310	.0010	.0880	.3220	.3210	.3140
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135.000		.1590	.1470	-.1650	-.1460	-.0630							.1810	.4460	.2570
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180.000	1.6060	.1180	.1270	-.1270	-.1160	-.1230	.0320	.1180	.0430	.0120	.2580	.0700	-.0280	.2160	.0470
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225.000		.0880	.4120	-.0810	-.1930	-.2690	.0270						-.0190	.1370	.0860
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270.000		.1170	.9660	.2730	-.1350	-.2570	.0290	.1100			.0970	-.0850	.0730	.0370	.0830
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315.000		.2210	.7150	.0680	-.0070	-.1080	-.0680						.1210	.1210	.1670
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X/LS .9670

PHI

.000 .2930

45.000 .3280

90.000 .2710

135.000 .1360

180.000 .1830

225.000 .3190

270.000 .1770

315.000 .2880

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
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PHI

.000	1.5180	.2500	.3090	-.0680	.0000	-.0530	-.0640	.0160	-.0220	.0050	-.0030	-.0390	.2160	.3780	.3460
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45.000		.1890	.2070	-.1390	-.1120	-.0370							.1960	.2770	.2920
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90.000		.1340	.1450	-.1680	-.1520	-.1140	-.0620	-.0120	.0230	-.0100	-.0100	.0510	.2800	.3530	.2360
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135.000		.1030	.1000	-.1840	-.1670	-.0750							.1220	.3630	.2240
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180.000	1.5180	.0750	.1030	-.1400	-.0960	-.1320	.0520	.0630	-.0140	-.0170	.1410	-.0130	-.0730	.1430	.0360
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225.000		.0580	.3930	-.0770	-.1880	-.2460	.0590						.0320	.1300	.0280
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DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1831

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RB0626)

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0920	.9450	.2720	-.1350	-.2420	.0940	.0880			.0740	-.1000	-.0010	-.0100	.0870
315.000		.2070	.6610	.0740	.0110	-.0900	-.0460						.1130	.2290	.3270

X/LS .9670

PHI

.000	.3860
45.000	.2710
90.000	.1890
135.000	.0890
180.000	.3190
225.000	.1460
270.000	.1530
315.000	.3230

MACH (2) = 2.000

BETAT (6) = 5.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4760	.2410	.3010	-.0510	-.0080	-.0620	-.0680	-.0030	-.0460	.0080	-.0030	-.0580	.2270	.3410	.3800
45.000		.1550	.1730	-.1490	-.1240	-.0660							.1850	.2850	.3240
90.000		.0960	.1150	-.1760	-.1660	-.1180	-.0690	-.0170	.0000	-.0340	-.0150	.0350	.2580	.3920	.2460
135.000		.0750	.0790	-.1910	-.1650	-.0910							.1660	.3850	.2580
180.000	1.4760	.0590	.0920	-.1500	-.0890	-.1400	.0140	.0240	-.0420	.0140	.0840	-.0430	-.0440	.1440	.0080
225.000		.0530	.4060	-.0710	-.1840	-.2080	.0510						-.0430	.0550	.0170
270.000		.0930	.9440	.2690	-.1260	-.2370	.0350	.0550			.0420	-.1150	-.0150	.0090	.0650
315.000		.2060	.7090	.0750	.0130	-.0800	-.0290						.0470	.2420	.4020

X/LS .9670

PHI

.000	.3940
45.000	.3320
90.000	.2100
135.000	.1150
180.000	.3350
225.000	.0950
270.000	.1730
315.000	.3260

AMES 97-707 1A9 02A + S3 + 19 SRM BOOSTER

(RBOS26)

BETAT (7) = 8.535

MACH (2) = 2.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

[illegible]

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1833

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS27) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.330

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5280	.3960	.5770	-.1190	-.0410	-.0630	-.0400	.0520	.0670	.0590	.1160	.0200	.1910	.3460	.3790
45.000		.4270	.5260	-.1200	-.0500	.0770							.3800	.4960	.4830
90.000		.3470	.4010	-.1720	-.1050	-.0470	-.0640	-.0690	.0790	.0620	.2750	.1780	.4550	.5150	.4340
135.000		.2220	.2430	-.2290	-.1730	-.1260							.3550	.3550	.1650
180.000	1.5280	.1310	.2530	-.2350	-.1870	-.1750	-.0300	.0560	.0840	.1160	.3690	.0480	-.0280	.1210	.2830
225.000		.1090	.2400	-.3110	-.3090	-.2900	.0090						-.0100	.1180	.2660
270.000		.1570	.7670	.0220	-.3480	-.2690	-.0020	.1280			-.0840	-.1360	.1170	.2310	.3250
315.000		.2850	.6810	-.0950	-.1220	-.1780	-.0020						.1680	.1900	.2190

X/LS .9670

PHI

.000 .3410
 45.000 .4550
 90.000 .3620
 135.000 .0570
 180.000 .4220
 225.000 .2390
 270.000 .3490
 315.000 .2560

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5150	.3650	.5620	-.1260	-.0550	-.0750	-.0420	.0590	.0530	.0500	.1110	.0240	.2600	.3820	.3680
45.000		.3860	.4810	-.1360	-.0690	.0360							.3570	.4630	.4500
90.000		.3020	.3430	-.1930	-.1330	-.0790	-.0810	-.1020	.0570	.0270	.2340	.1560	.4190	.4560	.3910
135.000		.1930	.1940	-.2460	-.1870	-.1320							.3430	.3480	.1500
180.000	1.5150	.1070	.2320	-.2440	-.1960	-.1740	-.0090	.0600	.0470	.0690	.3340	.0280	-.0460	.1090	.3750
225.000		.0740	.2230	-.3170	-.2880	-.2880	-.0020						.0250	.1610	.3780
270.000		.1360	.7630	.0190	-.3450	-.2510	-.0100	.1130			-.0870	-.1020	.1200	.1790	.2310
315.000		.2580	.6750	-.0990	-.1250	-.1780	-.0150						.1610	.1370	.1960

X/LS .9670

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS27)

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3590
45.000	.4270
90.000	.3210
135.000	.0790
180.000	.4130
225.000	.1970
270.000	.2910
315.000	.2400

MACH (1) = 1.555

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4900	.3470	.5450	-.1320	-.0630	-.0850	-.0520	.0590	.0280	.0440	.0910	.0400	.2910	.3870	.3680
45.000		.3450	.4340	-.1560	-.0940	.0090							.3560	.4470	.4290
90.000		.2540	.2910	-.2140	-.1600	-.0940	-.1130	-.1040	.0490	.0000	.2080	.1300	.3950	.4160	.3580
135.000		.1620	.1600	-.2590	-.1950	-.1340							.3330	.3330	.1370
180.000	1.4900	.0850	.2160	-.2520	-.2090	-.1850	-.0050	.0670	.0280	.0710	.3160	.0050	-.0510	.1480	.5070
225.000		.0480	.2150	-.3220	-.3140	-.3030	-.0070						.0940	.2270	.3480
270.000		.1190	.7580	.0170	-.3530	-.2880	-.0070	.0950			-.0430	-.0800	.1030	.1220	.1870
315.000		.2480	.6740	-.0970	-.1250	-.1780	-.0220						.1090	.1100	.1900

X/LS .9670

PHI

.000	.3520
45.000	.4000
90.000	.2910
135.000	.2270
180.000	.3850
225.000	.1320
270.000	.2470
315.000	.2390

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBOS27)

MACH (1) = 1.555

BETAT (4) = -.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4420	.3060	.5200	-.1410	-.0790	-.0980	-.0560	.0260	.0020	.0220	.0350	-.0100	.2940	.4040	.4130
45.000		.2670	.3780	-.1880	-.1380	-.0570							.3320	.4060	.4080
90.000		.1680	.2020	-.2500	-.2070	-.1440	-.1370	-.0300	.0300	-.0200	.1360	.0710	.3400	.3210	.3320
135.000		.0990	.1140	-.2820	-.2140	-.1470							.2720	.3300	.1110
180.000	1.4420	.0230	.1980	-.2630	-.2310	-.1980	-.0030	.0470	-.0100	.0110	.2470	-.0310	.0370	.1500	.4810
225.000		.0050	.2060	-.3230	-.3480	-.3230	-.0190						.0860	.2030	.2660
270.000		.0860	.7510	.0180	-.3470	-.2970	.0210	.0350			.0780	-.0880	.0750	.0490	.1790
315.000		.2270	.6750	-.0920	-.1150	-.1590	-.0040						.1300	.1520	.3170

X/LS .9670

PHI

.000	.4400
45.000	.4150
90.000	.2830
135.000	.3310
180.000	.3730
225.000	.0620
270.000	.2390
315.000	.3750

MACH (1) = 1.555

BETAT (5) = 3.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3870	.2690	.4970	-.1530	-.1010	-.1100	-.0150	-.0250	-.0350	.0030	.0400	.0850	.4090	.5590	.5170
45.000		.1780	.2890	-.2230	-.1810	-.1250							.2950	.3720	.3940
90.000		.0770	.1280	-.2840	-.2450	-.1660	-.0860	-.0080	-.0070	-.0310	.1410	.0920	.3130	.2920	.2220
135.000		.0300	.0800	-.2950	-.2100	-.1350							.2600	.3530	.1510
180.000	1.3870	-.0250	.1870	-.2730	-.2320	-.2040	.0120	.0110	-.0080	-.0020	.1930	-.0600	.0700	.1690	.4070
225.000		-.0360	.2200	-.3140	-.3430	-.3010	-.0080						.1130	.2630	.1470
270.000		.0590	.7550	.0180	-.3450	-.2740	-.0200	-.0790			.0920	-.0820	.0910	.1110	.2230
315.000		.2170	.6740	-.0910	-.1020	-.1270	.0490						.2820	.3520	.3390

X/LS .9670

PHI

.000	.4970
45.000	.3560
90.000	.1990
135.000	.3370
180.000	.2300

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBOS27)

MACH (1) = 1.555

BETAT (5) = 3.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0340

270.000 .2760

315.000 .3780

MACH (1) = 1.555

BETAT (6) = 6.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3490	.2600	.4780	-.1590	-.1100	-.0990	-.0250	-.0680	-.0320	.0520	.0700	.0130	.3850	.4900	.5120
45.000		.1550	.2480	-.2380	-.2070	-.1500							.2710	.3670	.3650
90.000		.0470	.0980	-.3010	-.2560	-.1640	-.0340	-.0250	.0310	-.0100	.1050	.0770	.2820	.2950	.1870
135.000		.0140	.0800	-.2980	-.2140	-.1370							.2170	.2950	.3170
180.000	1.3490	-.0420	.1850	-.2710	-.2470	-.1970	-.0080	.0250	.0350	.1310	.1500	-.0860	.0840	.2330	.3610
225.000		-.0500	.2290	-.3090	-.3370	-.2720	-.0230						.1060	.2090	.0430
270.000		.0460	.7490	.0170	-.3460	-.2560	-.0530	-.1480			.1100	-.0870	.0510	.0840	.1780
315.000		.2150	.6630	-.0960	-.0920	-.0930	.0570						.2120	.3130	.4190

X/LS .9670

PHI

.000 .4970

45.000 .3240

90.000 .1700

135.000 .2980

180.000 .1960

225.000 .0080

270.000 .2010

315.000 .4710

MACH (1) = 1.555

BETAT (7) = 8.090

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3260	.2440	.4640	-.1630	-.1070	-.0930	-.0460	-.0250	.0520	.0200	.0140	-.0220	.3390	.4930	.5070
45.000		.1190	.2150	-.2540	-.2280	-.1790							.2560	.3300	.2940
90.000		.0170	.0720	-.3140	-.2700	-.1600	.0520	-.0150	-.0180	-.0260	.0630	.0270	.2540	.3060	.1450
135.000		-.0070	.0760	-.2980	-.2200	-.1280							.1650	.2430	.3250
180.000	1.3260	-.0550	.1830	-.2730	-.2530	-.0610	-.0170	.1130	.0410	.0700	.0490	-.1180	.0370	.1880	.3420
225.000		-.0510	.2390	-.3030	-.3400	-.2210	-.0530						.0450	.1720	.0070

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1837

AMES 97-707 IA9.02A + S3 + T9 SRM BOOSTER

(RBOS27)

MACH (1) = 1.555

BETAT (7) = 8.090

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0500	.7480	.0160	-.3430	-.2400	-.0900	-.0830			.0680	-.1050	.0250	.0780	.1200
315.000		.2110	.6570	-.0980	-.0800	-.0290	.0550					.1580	.3470	.4320	

X/LS .9670

PHI

.000	.4690
45.000	.2450
90.000	.1660
135.000	.2530
180.000	.1940
225.000	-.0240
270.000	.1180
315.000	.4740

MACH (2) = 2.000

BETAT (1) = -8.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7720	.4490	.4480	.0470	.0890	.0530	-.0090	.0300	.0790	.0810	.1070	.0540	.2290	.3530	.3460
45.000		.4600	.4640	-.0150	.0250	.1360							.3860	.4990	.5060
90.000		.3840	.4120	-.0490	-.0230	-.0040	-.0060	-.0060	.0060	.0610	.1310	.2290	.4770	.5580	.5060
135.000		.2800	.2590	-.1160	-.1010	-.0490							.3750	.3830	.2870
180.000	1.7720	.1980	.1770	-.1020	-.0360	-.0810	-.1710	-.0620	.1050	.0750	.3240	.2410	.0690	.3840	.1360
225.000		.1430	.3990	-.1050	-.2190	-.2930	-.0110						-.0890	-.0330	-.1170
270.000		.1870	1.0050	.2670	-.1230	-.2360	-.0950	.1370			.1120	-.1190	-.0500	.0340	.1880
315.000		.3190	.8160	.1010	.0440	-.0650	-.0070						.1580	.1600	.1720

X/LS .9670

PHI

.000	.3270
45.000	.4740
90.000	.4440
135.000	.2030
180.000	.0220
225.000	.1440
270.000	.2650
315.000	.2190

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS27)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7310	.4280	.4380	.0280	.0750	.0290	-.0150	.0190	.0640	.0650	.0860	.0300	.2290	.3570	.3510
45.000		.4250	.4210	-.0410	-.0030	.0840							.3640	.4770	.4780
90.000		.3410	.3460	-.0800	-.0590	-.0330	-.0340	-.0370	.0030	.0540	.0660	.2010	.4520	.5290	.4730
135.000		.2550	.2140	-.1420	-.1260	-.0520							.2240	.3710	.2810
180.000	1.7310	.1760	.1440	-.1170	-.0620	-.0950	-.1730	-.0460	.1090	.0700	.3240	.1860	.0470	.3490	.1060
225.000		.1220	.3840	-.1100	-.2240	-.2980	.0170						-.1100	-.0550	-.1100
270.000		.1700	.9920	.2660	-.1240	-.2330	-.0910	.1020			.1210	-.1110	.0110	.0730	.2160
315.000		.3050	.8030	.0990	.0420	-.0690	-.0230						.1450	.1350	.1710

X/LS .9670

PHI

.000	.3360
45.000	.4450
90.000	.4130
135.000	.1930
180.000	.0030
225.000	.1620
270.000	.3060
315.000	.2360

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6930	.3970	.4200	.0140	.0610	.0120	-.0270	.0100	.0540	.0590	.0590	.0140	.2440	.3710	.3620
45.000		.3690	.3720	-.0600	-.0210	.0570							.3420	.4480	.4470
90.000		.2840	.3070	-.0930	-.0770	-.0570	-.0560	-.0550	.0170	.0450	.0290	.1670	.4170	.4710	.4240
135.000		.2060	.1910	-.1500	-.1330	-.0620							.1580	.4370	.3050
180.000	1.6930	.1420	.1310	-.1230	-.0720	-.1100	-.1770	.0330	.1050	.0550	.3070	.1650	.0340	.3010	.0810
225.000		.1020	.3490	-.1220	-.2330	-.2940	-.0600						-.0800	.0100	-.0310
270.000		.1570	.9790	.2650	-.1270	-.2350	-.0710	.1110			.1270	-.0920	.0400	.0930	.1770
315.000		.2920	.7960	.0980	.0360	-.0770	-.0340						.1250	.1190	.1800

X/LS .9670

PHI

.000	.3470
45.000	.4180
90.000	.3750
135.000	.1980
180.000	-.0250

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1839

AMES 97-707 IA9-02A + S3 + T9 SRM-BOOSTER

(RBOS27)

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2160

270.000 .2710

315.000 .2460

MACH (2) = 2.000

BETAT (4) = -.120

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5880	.3360	.3740	-.0180	.0350	-.0140	-.0310	.0200	.0270	.0350	.0250	-.0320	.2450	.3610	.3520
45.000		.2760	.2890	-.1010	-.0710	-.0140							.2810	.3650	.3670
90.000		.1860	.2040	-.1450	-.1300	-.0980	-.0870	-.0820	.0300	.0160	.0130	.1020	.3150	.3340	.3370
135.000		.1340	.1180	-.1830	-.1700	-.0780							.2380	.5520	.2890
180.000	1.5880	.0860	.0780	-.1400	-.1190	-.1350	-.0510	.0910	.0510	.0050	.2510	.0820	.0320	.2070	.0550
225.000		.0550	.3170	-.1320	-.2410	-.2370	-.0880						.0330	.1260	.0650
270.000		.1120	.9530	.2590	-.1320	-.2310	-.1120	.0960			.1080	-.0590	.0730	.0460	.1130
315.000		.2590	.7810	.0900	.0360	-.0690	-.0280						.1400	.1470	.2400

X/LS .9670

PHI

.000 .3520

45.000 .3460

90.000 .2900

135.000 .1630

180.000 -.0350

225.000 .2850

270.000 .1920

315.000 .3330

MACH (2) = 2.000

BETAT (5) = 3.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4970	.3100	.3750	-.0430	.0230	-.0290	-.0360	.0090	-.0220	.0010	-.0050	-.0630	.2490	.3860	.3950
45.000		.2130	.2290	-.1270	-.1030	-.0380							.2210	.3080	.3050
90.000		.1190	.1320	-.1720	-.1610	-.1300	-.1040	-.0300	.0000	-.0260	.0060	.0700	.2380	.2980	.1700
135.000		.0790	.0710	-.2000	-.1850	-.0810							.1760	.3640	.2590
180.000	1.4970	.0420	.0650	-.1460	-.1110	-.1440	.0420	.0510	-.0080	.0330	.1180	-.0040	-.0110	.1520	.0290
225.000		.0230	.2930	-.1300	-.2350	-.2240	-.0670						.0410	.1120	.0530

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBOS27)

MACH (2) = 2.000

BETAT (5) = 3.970

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

270.000		.0850	.9280	.2530	-.1310	-.2140	-.0740	.0380			.0730	-.0880	.0320	-.0050	.0920
315.000		.2480	.6220	.0950	.0500	-.0440	.0010						.1230	.2640	.3490

X/LS .9670

PHI

.000	.3980
45.000	.2810
90.000	.1820
135.000	.1300
180.000	.2880
225.000	.1380
270.000	.1720
315.000	.3120

MACH (2) = 2.000

BETAT (6) = 6.030

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.4550	.2930	.3740	-.0420	.0140	-.0350	-.0390	-.0030	-.0410	.0060	-.0080	-.0860	.2120	.3170	.3820
45.000		.1760	.1970	-.1360	-.1170	-.0680							.2050	.3100	.3180
90.000		.0830	.1010	-.1850	-.1730	-.1450	-.1100	-.0310	-.0350	-.0540	-.0020	.0550	.2240	.3400	.2100
135.000		.0510	.0550	-.2030	-.1870	-.0880							.1940	.3760	.2920
180.000	1.4550	.0250	.0490	-.1590	-.1080	-.1540	.0290	.0260	-.0320	.0260	.0820	-.0270	.0280	.1470	.0190
225.000		.0130	.2720	-.1280	-.2310	-.2240	-.0560						-.0340	.0710	.0610
270.000		.0860	.9340	.2450	-.1260	-.2060	-.0650	.0020			.0470	-.1020	.0220	.0340	.0770
315.000		.2470	.5290	.0910	.0580	-.0300	.0320						.1000	.3450	.4030

X/LS .9670

PHI

.000	.3820
45.000	.3290
90.000	.1960
135.000	.1640
180.000	.3240
225.000	.1040
270.000	.1730
315.000	.3520

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBCS27)

MACH (2) = 2.000

DETAT (7) = 8.979

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4160	.2740	.3720	-.0530	-.0090	-.0440	-.0260	-.0090	-.0440	.0100	-.0310	-.0420	.2510	.3920	.4310
45.000		.1420	.1610	-.1560	-.1370	-.1030							.2680	.3320	.3140
90.000		.0510	.0630	-.2040	-.1920	-.1580	-.0990	-.0590	-.1060	-.0530	.0170	.0910	.2720	.3660	.2320
135.000		.0210	.0280	-.2160	-.1960	-.0960							.0910	.3240	.1900
180.000	1.4160	.0020	.0320	-.1740	-.1170	-.1680	.0150	-.0150	-.0530	.0050	.1030	.0300	-.0790	.0890	.0580
225.000		.0030	.2660	-.1110	-.2140	-.2460	.0670						-.0640	.0200	.2330
270.000		.0750	.9350	.2350	-.1220	-.1980	.0560	-.0460			.0240	-.1060	.0370	.0820	.1150
315.000		.2390	.4910	.0960	.0590	-.0190	.0490						.1650	.4820	.3360

X/LS .9670

PHI

.000	.4350
45.000	.2820
90.000	.1020
135.000	.1210
180.000	.3050
225.000	.0320
270.000	.2200
315.000	.3540

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RB0628) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.350

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.5160	.4570	.6310	-.1020	-.0100	-.0270	-.0050	.0830	.0800	.0690	.1340	.0560	.2590	.4230	.4200
45.000		.4550	.5570	-.1120	-.0330	.0870							.4370	.5410	.5210
90.000		.3250	.3870	-.1800	-.1190	-.0750	-.0980	-.0990	.0230	.0390	.2950	.2060	.4980	.5160	.4330
135.000		.1740	.2010	-.2460	-.2020	-.1670							.3670	.3020	.1540
180.000	1.5160	.0990	.2160	-.2470	-.2100	-.2100	-.1220	-.0420	.1200	.1710	.4160	.0740	-.0610	.1370	-.0440
225.000		.0860	.1470	-.3580	-.3500	-.3350	-.0190						-.0350	.1210	.3010
270.000		.1410	.7250	.0080	-.3420	-.3310	-.0510	.1290			-.0590	-.1180	.1580	.2460	.3240
315.000		.3210	.7320	-.0690	-.0800	-.1280	.0200						.1890	.1970	.2290

X/LS .9670

PHI

.000 .3900
 45.000 .4910
 90.000 .3620
 135.000 .0450
 180.000 .3960
 225.000 .2330
 270.000 .3520
 315.000 .2790

MACH (1) = 1.555

BETAT (2) = -6.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4980	.4270	.6180	-.1070	-.0200	-.0400	-.0080	.0760	.0630	.0560	.1180	.0510	.3130	.4440	.4120
45.000		.4180	.5220	-.1310	-.0550	.0450							.4200	.5200	.4960
90.000		.2790	.3370	-.1990	-.1470	-.1070	-.1170	-.1380	-.0020	.0040	.2490	.1710	.4370	.4510	.3840
135.000		.1490	.1580	-.2600	-.2140	-.1670							.3630	.3060	.1460
180.000	1.4980	.0710	.1920	-.2520	-.2190	-.2080	-.0930	.0170	.0730	.1070	.3570	.0570	-.0890	.1330	.2500
225.000		.0450	.1270	-.3650	-.3260	-.3260	-.0340						.0320	.1820	.3420
270.000		.1170	.7220	.0060	-.3450	-.2840	-.0570	.1130			-.0640	-.0840	.1470	.1800	.2530
315.000		.3030	.7290	-.0700	-.0840	-.1290	.0050						.1780	.1530	.2240

X/LS .9670

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1843

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOG28)

MACH (1) = 1.555

BETAT (2) = -6.300

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

.000	.3950
45.000	.4550
90.000	.3220
135.000	.0390
180.000	.3810
225.000	.1700
270.000	.3010
315.000	.2800

MACH (1) = 1.555

BETAT (3) = -4.230

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4710	.4110	.5990	-.1130	-.0310	-.0450	-.0210	.0750	.0370	.0420	.0900	.0680	.3340	.4380	.4100
45.000		.3710	.4820	-.1480	-.0790	.0180							.4150	.4930	.4640
90.000		.2380	.2850	-.2200	-.1710	-.1290	-.1550	-.1570	-.0080	-.0270	.2130	.1470	.3850	.4040	.3390
135.000		.1220	.1220	-.2750	-.2160	-.1670							.3540	.3080	.1430
180.000	1.4710	.0490	.1730	-.2620	-.2270	-.2140	-.0740	.0450	.0400	.0950	.3160	.0290	-.0940	.1600	.3590
225.000		.0140	.1100	-.3720	-.3390	-.3360	-.0450						.1070	.2440	.3140
270.000		.1010	.7140	.0020	-.3470	-.2880	-.0550	.0900			-.0470	-.0670	.1220	.1300	.2090
315.000		.2920	.7250	-.0710	-.0830	-.1260	.0050						.1220	.1200	.2120

X/LS .9670

PHI

.000	.4010
45.000	.4240
90.000	.2810
135.000	.0430
180.000	.3590
225.000	.1370
270.000	.2640
315.000	.2700

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBOS28)

MACH (1) = 1.555

BETAT (4) = -.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4220	.3690	.5730	-.1240	-.0520	-.0600	-.0030	.0220	-.0050	.0090	.0470	.0030	.3120	.4530	.4690
45.000		.2960	.3910	-.1820	-.1290	-.0580							.3330	.4150	.4240
90.000		.1490	.1970	-.2600	-.2230	-.1930	-.1860	-.1450	-.0100	-.0310	.1360	.0860	.2790	.3120	.3090
135.000		.0650	.0700	-.2970	-.2340	-.1750							.2340	.3250	.1370
180.000	1.4220	.0060	.1430	-.2790	-.2490	-.2220	-.0200	.0480	.0170	.0210	.2430	-.0180	-.0110	.1690	.4550
225.000		-.0370	.1010	-.3750	-.3690	-.3520	-.0750						.0900	.2420	.1910
270.000		.0640	.7060	.0010	-.3410	-.3520	-.0520	.0420			.0500	-.0850	.1020	.0700	.1930
315.000		.2730	.7210	-.0680	-.0690	-.1020	.0340						.1180	.1570	.3450

X/LS .9670

PHI

.000	.4860
45.000	.4350
90.000	.2630
135.000	.1920
180.000	.3390
225.000	.0360
270.000	.2430
315.000	.4030

MACH (1) = 1.555

BETAT (5) = 4.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3620	.3330	.5390	-.1390	-.0710	-.0660	.0020	-.0270	-.0560	-.0170	.0170	.0990	.4450	.5510	.5270
45.000		.2010	.3010	-.2190	-.1790	-.1270							.3180	.3900	.3950
90.000		.0540	.1070	-.2960	-.2690	-.2260	-.1650	-.0440	-.0420	-.0390	.1450	.0910	.3020	.3010	.2110
135.000		.0000	.0460	-.3110	-.2320	-.1520							.2690	.4050	.1520
180.000	1.3620	-.0490	.1310	-.2840	-.2500	-.2280	.0350	.0260	.0190	.0270	.2080	-.0530	.0640	.2260	.3790
225.000		-.0800	.1060	-.3640	-.3670	-.3270	-.1080						.1150	.2690	.1090
270.000		.0370	.6980	.0010	-.3310	-.3220	-.1110	-.0730			.0860	-.0650	.0790	.1150	.2170
315.000		.2660	.7030	-.0710	-.0470	-.0610	.0790						.2510	.2880	.3310

X/LS .9670

PHI

.000	.5210
45.000	.3750
90.000	.2000
135.000	.2160
180.000	.2090

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1845

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R80628)

MACH (1) = 1.555

BETAT (5) = 4.000

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .0460

270.000 .2530

315.000 .3700

MACH (1) = 1.555

BETAT (6) = 6.060

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3250	.3220	.5270	-.1430	-.0690	-.0610	-.0100	-.0570	-.0710	.0540	.0650	.0390	.4020	.5220	.5430
45.000		.1730	.2680	-.2320	-.2060	-.1540							.2980	.3680	.3630
90.000		.0250	.0750	-.3090	-.2810	-.2390	-.0930	-.0670	-.0230	-.0140	.1120	.0770	.2780	.3060	.1770
135.000		-.0160	.0440	-.3150	-.2330	-.1560							.2420	.3240	.2770
180.000	1.3250	-.0640	.1250	-.2960	-.2650	-.2230	.0120	.0140	.0580	.1510	.1700	-.0840	.0900	.2960	.3450
225.000		-.0960	.1080	-.3640	-.3730	-.3110	-.1310						.1120	.2260	.0370
270.000		.0240	.6760	-.0110	-.3310	-.3030	-.1370	-.1290			.1030	-.0830	.0610	.1130	.1870
315.000		.2640	.6990	-.0770	-.0360	-.0170	.0830						.2310	.3350	.4380

X/LS .9670

PHI

.000 .5280

45.000 .3190

90.000 .1500

135.000 .2380

180.000 .1710

225.000 .0370

270.000 .1960

315.000 .5010

MACH (1) = 1.555

BETAT (7) = 8.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.2980	.3080	.5120	-.1490	-.0670	-.0350	-.0290	-.0720	.0290	.0050	.0020	.0220	.3440	.5100	.5190
45.000		.1410	.2270	-.2530	-.2300	-.1860							.2690	.3290	.2840
90.000		-.0070	.0450	-.3290	-.3020	-.2280	-.0080	-.0920	-.0260	-.0290	.0640	.0150	.2500	.2910	.1390
135.000		-.0380	.0420	-.3130	-.2340	-.1490							.1740	.2390	.3300
180.000	1.2980	-.0850	.1180	-.2950	-.2720	-.1830	.0160	.0640	.0440	.1060	.1350	-.1030	.0110	.2650	.3060
225.000		-.1010	.1150	-.3620	-.3740	-.2880	-.1530						.0480	.1930	.0090

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBOS28)

MACH (1) = 1.555

BETAT (7) = 8.130

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0410	.6800	-.0080	-.3340	-.2690	-.1460	-.0130			.0740	-.1150	.0350	.1000	.1200
315.000		.2760	.6940	-.0770	-.0270	.0570	.0730						.2120	.4030	.4760

X/LS .9670

PHI

.000	.4890
45.000	.2330
90.000	.1050
135.000	.1940
180.000	.1870
225.000	.0120
270.000	.1230
315.000	.5230

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7580	.5030	.5380	.0830	.1150	.0800	.0290	.0650	.0910	.1050	.1100	.0620	.2780	.4090	.4060
45.000		.4950	.5030	.0010	.0510	.1150							.4150	.5270	.5340
90.000		.3680	.4040	-.0510	-.0320	-.0100	-.0320	-.0400	-.0560	.0080	.1690	.2300	.4790	.5390	.5100
135.000		.2490	.2310	-.1370	-.1300	-.0830							.4030	.3730	.2850
180.000	1.7580	.1640	.1870	-.1050	-.0580	-.0980	-.1710	-.0990	.0300	.0460	.2900	.2270	.1090	.4240	.1580
225.000		.1140	.3200	-.1480	-.2590	-.2900	-.0500						-.0120	.0090	-.0750
270.000		.1820	.9770	.2540	-.1170	-.2090	-.1500	.0860			.1540	-.1110	-.0300	.0570	.1990
315.000		.3500	.8660	.1230	.0840	-.0250	.0340						.1910	.2110	.2300

X/LS .9670

PHI

.000	.3980
45.000	.5210
90.000	.4580
135.000	.1910
180.000	.0230
225.000	.1650
270.000	.2630
315.000	.2740

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1847

AMES 97-707 1A9 O2A + S3 + T9 SRM BOOSTER

(RBOS28)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.7170	.4850	.5240	.0740	.0980	.0550	.0270	.0490	.0760	.0880	.0900	.0390	.2700	.4120	.4110
45.000		.4550	.4530	-.0250	.0200	.1160							.3810	.4890	.4920
90.000		.3290	.3310	-.0840	-.0650	-.0340	-.0610	-.0690	-.0770	.0140	.1180	.2100	.4360	.4790	.4540
135.000		.2220	.1740	-.1580	-.1420	-.0790							.3680	.3100	.2530
180.000	1.7170	.1400	.1360	-.1240	-.0730	-.1090	-.1700	-.0900	.0660	.0480	.2660	.2050	.0980	.4110	.1480
225.000		.0930	.2930	-.1580	-.2680	-.2980	-.0640						-.0520	-.0230	-.0750
270.000		.1640	.9680	.2530	-.1210	-.2090	-.1580	.0620			.1610	-.1010	.0040	.0920	.2360
315.000		.3410	.8600	.1240	.0810	-.0260	.0180						.1910	.2030	.2390

X/LS .9670

PHI

.000	.4020
45.000	.4880
90.000	.4100
135.000	.1690
180.000	.0270
225.000	.1920
270.000	.3190
315.000	.3020

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.6730	.4520	.5010	.0570	.0830	.0400	.0100	.0390	.0620	.0750	.0590	.0160	.2930	.4250	.4100
45.000		.3970	.4110	-.0430	-.0040	.0820							.3550	.4530	.4540
90.000		.2670	.2920	-.1030	-.0880	-.0620	-.0890	-.0960	-.0860	.0020	.0790	.1730	.4040	.4400	.4130
135.000		.1770	.1490	-.1650	-.1580	-.0890							.1660	.2690	.2340
180.000	1.6730	.1040	.1070	-.1370	-.0910	-.1260	-.1380	-.0320	.0780	.0450	.2710	.1900	.0600	.3520	.1180
225.000		.0680	.2650	-.1680	-.2720	-.3030	-.0880						-.0510	.0050	-.0210
270.000		.1490	.9560	.2500	-.1220	-.2090	-.1500	.0760			.1500	-.0880	.0490	.1170	.2170
315.000		.3310	.8510	.1210	.0780	-.0320	.0100						.1590	.1710	.2330

X/LS .9670

PHI

.000	.4050
45.000	.4470
90.000	.3680
135.000	.1680
180.000	.0070

AMES 97-707 1A9 02A- + S3 + T9 SRM BOOSTER

(R00628)

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS .9670

PHI

225.000 .2560

270.000 .3020

315.000 .2940

MACH (2) = 2.000

BETAT (4) = -.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.5650	.3960	.4550	.0370	.0600	.0140	.0000	.0380	.0340	.0320	.0180	-.0330	.2660	.4120	.4100
45.000		.3040	.3200	-.0830	-.0520	.0140							.2890	.3520	.3530
90.000		.1740	.1880	-.1460	-.1330	-.1040	-.1310	-.1280	-.0110	-.0130	.0640	.1110	.2880	.3490	.3010
135.000		.1060	.0880	-.1920	-.1820	-.0990							.1790	.5260	.2580
180.000	1.5650	.0540	.0630	-.1520	-.1250	-.1510	-.0800	.0510	.0390	.0140	.2240	.0970	.0570	.1960	.0680
225.000		.0230	.2320	-.1780	-.2790	-.3030	-.0420						.0380	.0890	.0670
270.000		.1100	.9340	.2470	-.1290	-.2040	-.1460	.1310			.1290	-.0440	.0930	.1000	.1460
315.000		.3000	.8290	.1150	.0760	-.0230	.0160						.1540	.1690	.2740

X/LS .9670

PHI

.000	.4090
45.000	.3470
90.000	.2750
135.000	.1800
180.000	-.0360
225.000	.2760
270.000	.2310
315.000	.3950

MACH (2) = 2.000

BETAT (5) = 3.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.4650	.3610	.4510	-.0160	.0430	.0020	-.0070	.0280	-.0070	.0030	.0010	-.0790	.2400	.3890	.3980
45.000		.2360	.2600	-.1130	-.0900	-.0400							.2500	.3220	.3250
90.000		.1030	.1150	-.1790	-.1680	-.1450	-.1730	-.0760	-.0540	-.0680	.0020	.0780	.2490	.3480	.1960
135.000		.0510	.0410	-.2090	-.1990	-.1040							.1210	.3920	.3130
180.000	1.4650	.0100	.0480	-.1640	-.1430	-.1520	.0200	.0510	.0030	.0450	.1700	.0100	.0040	.1820	.0350
225.000		-.0150	.1910	-.1830	-.2520	-.2400	-.1230						.0240	.1290	.0460

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1849

AMES 97-707 IA9 O2A + S3 + T9 SRM BOOSTER

(RBOS26)

MACH (2) = 2.000

BETAT (5) = 3.990

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
270.000		.0730	.9000	.2250	-.1270	-.1830	-.1410	.0110			.0890	-.0680	.0300	.0330	.1190
315.000		.2830	.5720	.1150	.0880	.0040	.0510						.1180	.2450	.3640

X/LS .9670

PHI

.000	.4000
45.000	.3000
90.000	.1450
135.000	.1670
180.000	.2830
225.000	.1390
270.000	.1730
315.000	.3580

MACH (2) = 2.000

BETAT (6) = 6.050

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.4240	.3450	.4520	-.0220	.0310	-.0040	-.0010	.0140	-.0180	.0050	-.0100	-.1040	.2140	.3340	.3900
45.000		.1960	.2230	-.1260	-.1050	-.0710							.2310	.2980	.3100
90.000		.0620	.0820	-.1920	-.1830	-.1660	-.1770	-.0840	-.0950	-.0870	.0000	.0480	.2530	.4420	.2070
135.000		.0240	.0270	-.2130	-.2000	-.1090							.1100	.4080	.2960
180.000	1.4240	-.0100	.0360	-.1680	-.1460	-.1600	.0200	.0380	-.0150	.0310	.1030	-.0180	-.0570	.1900	.0210
225.000		-.0230	.1740	-.1790	-.2770	-.2530	.0130						.0240	.0800	.0560
270.000		.0740	.8940	.2160	-.1240	-.1780	-.1340	-.0070			.0580	-.0870	.0010	.0480	.0900
315.000		.2860	.5470	.1240	.0880	.0150	.0780						.1490	.3640	.4310

X/LS .9670

PHI

.000	.3850
45.000	.3150
90.000	.1800
135.000	.2140
180.000	.2940
225.000	.1440
270.000	.1310
315.000	.3920

AMES 97-707 IA9 Q2A + S3 + T9 SRM BOOSTER

(RB0526)

MACH (2) = 2.000

DETAT (7) = 8.110

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0000	.0341	.0967	.1138	.1422	.1991	.2844	.3697	.4835	.5973	.7110	.8248	.8817	.9044	.9386
PHI															
.000	1.3830	.3300	.4410	-.0310	.0140	-.0100	.0080	.0060	-.0160	.0460	-.0430	-.0030	.2400	.3810	.4630
45.000		.1610	.1840	-.1420	-.1260	-.1020							.2700	.3030	.3050
90.000		.0310	.0470	-.2060	-.1980	-.1870	-.1470	-.1100	-.1500	-.0670	.0420	.0920	.2770	.4340	.2160
135.000		.0010	.0060	-.2200	-.1970	-.1090							.0530	.3240	.2580
180.000	1.3830	-.0300	.0180	-.1810	-.1520	-.1740	.0260	.0000	-.0420	.0020	.1070	.0180	-.0830	.0890	.0700
225.000		-.0370	.1420	-.1650	-.2650	-.2550	.0740						-.0150	.0400	.2170
270.000		.0790	.8960	.2100	-.1200	-.1660	-.1000	-.0740			.0430	-.0960	.0530	.0740	.1390
315.000		.2770	.4940	.1270	.0000	.0270	.0890						.2570	.5030	.3380

X/LS .9670

PHI

.000	.4710
45.000	.2800
90.000	.1360
135.000	.2040
180.000	.3000
225.000	.0660
270.000	.2010
315.000	.3740

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1851

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBOT01) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

ALPHAT(1) = -8.400

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5020	1.1830	.4270	.0620	-.1590	-.2060	-.2590	-.2370	-.1790	.0740	.0620	-.0820	-.1990	-.1310	-.0330
30.000			.4400	.0810	-.1550	-.2050	-.2590	-.2350	-.0880	-.0840	-.1180	-.1960	-.0860	-.1240	-.0560
60.000			.5000	.1200	-.1280	-.1820	-.2410	-.2210	-.0030	-.1220	-.4410	-.2590	-.2160	-.0060	-.0560
90.000		1.3450	.5970	.1940	-.0790	-.1400	-.2020	-.1880	.4980	-.0930	-.2940	-.1580	-.2270	-.0030	-.2040
120.000			.7050	.2860	-.0140	-.0770	-.1430	-.1350	.2290	.5010	.1240	.0780	.0800	.1320	-.0280
135.000								-.1080		.3160		.0900		.0770	
150.000			.8100	.3750	.0490	-.0200	-.0950	-.0830	-.0520	.4090	.2060	.1130	.1860	.0960	-.0190
165.000				.3940	.0660	-.0010	-.0790	-.0670	-.0390	.4190	.1380		.1520		-.0360
180.000	1.5020	1.5270	.8520	.3970	.0730	.0040	-.0750	-.0620	-.0320	.4680	.0650	.1310	.0700	.1840	-.0410
270.000		1.3500													

X/LT .7449 .8526 .9290

PHI

.000	.0320	-.0060	-.0090
30.000	-.0020	-.0150	-.0110
60.000	-.0060	-.0160	.0070
90.000			-.0170
120.000	-.1060	.0580	-.0630
135.000	-.1010	.0890	-.1210
150.000	-.0930	.1120	-.1490
165.000		.1210	-.2030
180.000	-.0800		

MACH (1) = 1.555

ALPHAT(2) = -6.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5220	1.2410	.4780	.0930	-.1430	-.1930	-.2410	-.2220	-.1690	.0830	.0800	-.0650	-.1780	-.1670	-.0230
30.000			.4890	.1060	-.1410	-.1920	-.2380	-.2170	-.1250	-.0500	-.0810	-.1660	-.1290	-.1070	-.0510
60.000			.5390	.1370	-.1200	-.1640	-.2260	-.2030	.0350	-.0230	-.4060	-.1980	-.1590	.0060	-.0500
90.000		1.3590	.6130	.1940	-.0820	-.1330	-.1960	-.1810	.4550	-.0780	-.3710	-.1760	-.2560	.0270	-.2460
120.000			.6910	.2670	-.0320	-.0870	-.1530	-.1420	.1840	.4330	.0770	.0430	.0500	.0790	-.0320
135.000								-.1250		.2910		.0220		.0510	
150.000			.7650	.3240	.0100	-.0470	-.1180	-.1070	-.0440	.3570	.2060	.0740	.1250	.0370	-.0090

AMES 97-707 1A9 OEA + S3 + T9 EXTERNAL TANK

(RBO101)

MACH (1) = 1.555 ALPHAT (2) = -6.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

165.0000 .3390 .0240 .0320 .1070 .0990 .0630 .3590 .1500 .0560 .0690 .0260

180.0000 1.5220 1.5040 .7960 .3410 .0290 .0280 .1040 .0940 .0580 .0700 .1280 .0300 .0690 .0290

X/LT

.7449 .8526 .9290

PHI

.0350 .0040 .0020

.30.0000 .0080 .0020

.60.0000 .0160 .0150

.90.0000 .0000 .0000

120.0000 .0900 .0580 .0510

135.0000 .0850 .1130

150.0000 .0990 .1090 .1440

165.0000 .1200 .1390

180.0000 .0740

MACH (1) = 1.555

ALPHAT (3) = -4.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.0000 .5350 .1300 .1200 .1750 .2200 .2020 .1620 .0910 .1040 .0410 .1510 .1880 .0150

.30.0000 .5390 .1350 .1210 .1750 .2190 .1950 .1520 .0260 .0340 .1300 .1700 .0810 .0370

.60.0000 .5740 .1630 .1480 .1480 .2090 .1880 .0700 .0690 .3430 .2160 .0770 .0040 .0290

.90.0000 .6250 .1990 .1760 .1250 .1890 .1790 .4480 .0580 .4120 .1950 .2860 .0590 .2550

120.0000 .6720 .2460 .1040 .0930 .1590 .1520 .1740 .4070 .0230 .0070 .0640 .0800 .0360

135.0000 .7230 .2870 .0180 .0700 .1420 .1340 .0920 .3440 .1430 .0620 .0420 .0050 .0170

150.0000 .2940 .0240 .0090 .0630 .1340 .1280 .0720 .3200 .1610 .0060 .0080 .0050 .0040

165.0000 .2940 .0240 .0090 .0630 .1340 .1280 .0720 .3200 .1610 .0060 .0080 .0050 .0040

180.0000 1.5380 1.4770 .7450 .2940 .0240 .0090 .0630 .1340 .1280 .0720 .3200 .1610 .0060 .0080 .0050 .0040

PHI

.0000 .0260 .0120 .0080 .0040 .0020

.30.0000 .0120 .0080 .0040

.60.0000 .0030 .0020

.90.0000 .0030 .0020

120.0000 .0680 .0600 .0020

135.0000 .0880 .0880 .0020

150.0000 .0830 .1020 .0120

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1853

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBD001)

MACH (1) = 1.555

ALPHAT(3) = -4.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .1020 -.1930

180.000 -.0480

MACH (1) = 1.555

ALPHAT(4) = -2.190

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5440 1.3450 .5800 .1680 -.0960 -.1490 -.2030 -.1830 -.1420 .1120 .1200 -.0230 -.1260 -.1680 -.0110

30.000 .5850 .1730 -.0970 -.1510 -.2040 -.1800 -.1400 .0050 .0200 -.1000 -.1470 -.0640 -.0270

60.000 .6040 .1920 -.0910 -.1360 -.1980 -.1750 .0900 .1530 -.2970 -.2550 -.0380 -.0020 -.0370

90.000 1.3800 .6280 .2090 -.0710 -.1230 -.1870 -.1740 .4500 -.0460 -.4410 -.1340 -.2840 -.1360 -.2360

120.000 .6500 .2260 -.0550 -.1070 -.1700 -.1620 .1460 .3250 -.0330 -.1400 .0600 .0780 -.0400

135.000 .6770 .2520 -.0420 -.0970 -.1650 -.1470 -.1070 .3060 .1640 .0600 -.0280 -.0110 -.0230

150.000 .2520 -.0400 -.0910 -.1610 -.1460 -.0950 .2880 .1690 -.0350 -.0280

165.000 1.5440 1.4390 .6910 .2510 -.0370 -.0900 -.1590 -.1430 .0030 .2480 .1270 .1510 -.0330 -.0700 -.0190

180.000 1.3940

X/LT .7449 .8526 .9290

PHI

.000 .0160 .0150 .0030

30.000 .0030 .0030 .0090

60.000 -.0060 -.0110 .0090

90.000 -.0040

120.000 -.0650 .0870 .0160

135.000 -.0760 .1150 -.0520

150.000 -.0660 .1150 -.0770

165.000 .1070 -.1500

180.000 -.0300

AMES 97-7D7 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT01)

MACH (1) = 1.555

ALPHAT(5) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5420	1.3860	.6320	.2160	-.0700	-.1310	-.1840	-.1620	-.1270	.0990	.1430	.0020	-.1050	-.1490	-.0160
30.000			.6300	.2110	-.0790	-.1330	-.1870	-.1620	-.1250	.0560	.0440	-.0630	-.1210	-.0520	-.0270
60.000			.6300	.2080	-.0740	-.1220	-.1870	-.1640	.1200	.2290	-.2490	-.2440	-.0100	.0100	-.0230
90.000		1.3770	.6290	.2070	-.0720	-.1170	-.1800	-.1740	.4500	-.0380	-.4520	-.0380	-.1240	-.0320	-.1360
120.000			.6250	.2040	-.0700	-.1180	-.1830	-.1720	.1220	.2560	-.0970	-.1730	.0720	.0670	-.0560
135.000								-.1730		.1760		-.1490		.0170	
150.000			.6330	.2120	-.0740	-.1220	-.1830	-.1670	-.1200	.2620	.1980	.0410	-.0540	-.0170	-.0140
165.000				.2060	-.0780	-.1180	-.1790	-.1670	-.0300	.2430	.1730		-.0520		.0040
180.000	1.5420	1.3930	.6390	.2060	-.0760	-.1170	-.1810	-.1670	.1150	.1930	.1410	.1500	-.0500	-.1270	.0140
270.000		1.3930													

X/LT .7449 .8526 .9290

PHI

.000	.0110	.0210	.0100
30.000	.0010	.0110	.0140
60.000	.0100	-.0030	.0210
90.000			-.0170
120.000	-.0460	.1220	.0420
135.000	-.0610	.1450	.0020
150.000	-.0420	.1540	-.0370
165.000		.1140	-.1010
180.000	-.0110		

MACH (1) = 1.555

ALPHAT(6) = 1.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5470	1.4350	.6880	.2600	-.0390	-.1030	-.1600	-.1420	-.1060	-.0230	.1850	.0290	-.0740	-.1210	.0000
30.000			.6750	.2490	-.0460	-.1120	-.1660	-.1460	-.1080	.1120	.0400	-.0190	-.0910	-.0460	-.0300
60.000			.6540	.2260	-.0580	-.1090	-.1750	-.1580	.1520	.2980	-.1970	-.2110	.0150	.0200	-.0160
90.000		1.3810	.6290	.2050	-.0700	-.1180	-.1860	-.1750	.4410	-.0430	-.4450	-.0390	.0240	.0380	-.0220
120.000			.6010	.1830	-.0880	-.1380	-.1960	-.1800	.0980	.1780	-.1760	-.0990	.0590	.0440	-.0490
135.000								-.1840		.1440		-.1710		.0250	
150.000			.5870	.1780	-.0980	-.1430	-.1990	-.1820	-.0790	.2020	.2070	.0110	-.0730	-.0210	.0020
165.000				.1670	-.1000	-.1420	-.2000	-.1840	.0630	.2090	.1700		-.0730		.0590
180.000	1.5470	1.3530	.5870	.1630	-.1010	-.1420	-.2010	-.1850	.1110	.1500	.1500	.1440	-.0640	-.1620	.0930
270.000		1.3990													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1655

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RBOT01)

MACH (1) = 1.555

ALPHAT(6) = 1.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0030	.0190	.0150
30.000	.0020	.0170	.0310
60.000	.0100	.0100	.0200
90.000			-.0370
120.000	.0160	.1560	.0600
135.000	-.0230	.1670	.0250
150.000	-.0310	.1700	-.0110
165.000		.1190	-.0410
180.000	-.0090		

MACH (1) = 1.555

ALPHAT(7) = 4.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5330	1.4670	.7390	.3040	-.0040	-.0690	-.1360	-.1150	-.0830	-.0170	.2020	.0570	-.0450	-.0870	-.0010
30.000			.7180	.2880	-.0160	-.0830	-.1490	-.1220	-.0910	.1340	.0360	.0160	-.0560	-.0430	-.0220
60.000			.6710	.2480	-.0400	-.0920	-.1650	-.1480	.1740	.3620	-.1500	-.1630	-.0070	.0280	-.0090
90.000		1.3680	.6180	.2010	-.0730	-.1240	-.1910	-.1770	.4500	-.0550	-.3500	-.1270	.0340	.0360	.0130
120.000			.5680	.1640	-.1040	-.1490	-.2050	-.1910	.0750	.0960	-.2720	-.1370	.0640	.0360	-.0440
135.000								-.1980		.1340		-.1110		.0100	
150.000			.5410	.1390	-.1190	-.1610	-.2160	-.2000	.0320	.1400	.1900	-.0240	-.0690	-.0090	.0520
165.000				.1250	-.1230	-.1620	-.2180	-.2030	.0600	.1720	.1620		-.0660		.1010
180.000	1.5330	1.2990	.5320	.1210	-.1230	-.1640	-.2200	-.2020	.0770	.1250	.1490	.1530	-.0690	-.1560	.1110
270.000		1.3860													

X/LT .7449 .8526 .9290

PHI

.000	.0020	.0280	.0220
30.000	.0020	.0210	.0500
60.000	.0320	.0250	.0500
90.000			-.0220
120.000	.0370	.1860	.0810
135.000	.0240	.2050	.0500
150.000	-.0010	.1790	.0200
165.000		.1140	.0210
180.000	.0100		

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBD001)

MACH (1) = 1.555

ALPHAT(8) = 6.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5190	1.4960	.7890	.3480	.0300	-.0390	-.1050	-.0900	-.0580	-.0060	.2220	.0810	-.0160	-.0500	.0190
30.000			.7570	.3230	.0100	-.0580	-.1240	-.1030	-.0760	.1610	.0350	.0450	-.0190	-.0290	-.0080
60.000			.6870	.2630	-.0300	-.0830	-.1550	-.1400	.1970	.4220	-.1000	-.1100	-.0070	.0460	.0010
90.000		1.3550	.6100	.1910	-.0840	-.1300	-.1940	-.1830	.4480	-.0690	-.3830	-.2690	.0200	.0190	.0110
120.000			.5300	.1320	-.1230	-.1630	-.2200	-.2070	.0450	.0150	-.1840	-.2110	.0370	.0520	-.0380
135.000								-.2170		.1090		-.1030		.0130	
150.000			.4940	.1020	-.1440	-.1810	-.2350	-.2170	.0480	.0960	.1640	-.0160	-.1070	-.0570	.0890
165.000				.0890	-.1480	-.1840	-.2360	-.2210	.0350	.1420	.1600		-.0670		.1570
180.000	1.5190	1.2450	.4850	.0850	-.1500	-.1830	-.2380	-.2230	.0410	.0980	.1790	.1450	-.0670	-.1500	.1840
270.000		1.3780													

X/LT .7449 .8526 .9290

PHI															
.000	.0110	.0310	.0290												
30.000	.0050	.0240	.0580												
60.000	.0390	.0320	.0590												
90.000			.0030												
120.000	.0480	.2190	.0970												
135.000	.0460	.2280	.0870												
150.000	.0300	.1970	.0680												
165.000		.1160	.0440												
180.000	.0370														

MACH (1) = 1.555

ALPHAT(9) = 8.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4950	1.5180	.8420	.3940	.0740	.0000	-.0800	-.0600	-.0310	.0100	.2340	.1050	.0170	-.0100	.0570
30.000			.8000	.3670	.0420	-.0280	-.1000	-.0800	-.0530	.1940	.0470	.0590	.0120	-.0010	.0120
60.000			.7030	.2820	-.0170	-.0740	-.1470	-.1330	.2290	.4850	-.0470	-.0490	.0180	.0440	.0190
90.000		1.3340	.5960	.1890	-.0880	-.1370	-.2000	-.1860	.4530	-.0860	-.3580	-.3010	-.0570	.0180	.0110
120.000			.4970	.1130	-.1410	-.1810	-.2360	-.2210	.0240	-.0770	-.2290	-.2500	.0300	.0500	-.0310
135.000								-.2300		.0480		-.1200		.0070	
150.000			.4460	.0740	-.1670	-.2020	-.2490	-.2290	.0290	.0570	.1310	-.0350	-.1160	-.0650	.1240
165.000				.0590	-.1720	-.2020	-.2520	-.2290	.0130	.1060	.1800		-.0740		.1630
180.000	1.4950	1.1840	.4310	.0560	-.1670	-.2060	-.2560	-.2340	.0200	.0840	.2650	.1320	-.0720	-.1630	.1900
270.000		1.3590													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1857

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT01)

MACH (1) = 1.555

ALPHAT(9) = 8.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0280	.0390	.0340
30.000	.0150	.0190	.0570
60.000	.0550	.0450	.0580
90.000			-.0080
120.000	.0630	.2440	.1230
135.000	.0680	.2460	.1140
150.000	.0680	.2290	.1390
165.000		.1280	.1500
180.000	.0760		

MACH (2) = 2.000

ALPHAT(1) = -8.360

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6350	1.2850	.4410	.1200	-.0890	-.1280	-.1560	-.1450	-.1120	.0180	.0860	.0130	-.0690	-.1290	-.0610
30.000			.4670	.1230	-.0780	-.1230	-.1560	-.1440	-.1190	-.0200	-.0770	-.1220	-.1280	-.0600	-.0570
60.000			.5360	.1660	-.0540	-.0860	-.1340	-.1290	-.0200	.0030	-.2790	-.2530	-.2850	-.1080	-.0550
90.000		1.4600	.6490	.2440	-.0010	-.0400	-.0950	-.0900	.3120	.1180	-.1970	-.0440	-.0810	-.1080	.0470
120.000			.7560	.3350	.0640	.0140	-.0450	-.0410	.0130	.4950	.1860	.0780	.1820	.1310	.0780
135.000								-.0190		.2270		.0820		.1720	
150.000			.8450	.4140	.1160	.0630	-.0020	.0020	.0070	.3630	.3540	.1090	.0900	.1600	.0750
165.000				.4200	.1300	.0770	.0090	.0130	.0180	.3560	.3300		.0970		.0790
180.000	1.6350	1.6190	.8650	.4270	.1320	.0810	.0080	.0160	.0250	.3650	.2410	.2950	.1440	.0900	.0900
270.000		1.4210													

X/LT	.7449	.8526	.9290
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PHI			
.000	.0010	.0120	.0000
30.000	-.0340	-.0200	-.0180
60.000	-.0210	-.0230	-.0180
90.000			.0130
120.000	-.0020	.0020	.0240
135.000	.0130	.0730	-.0440
150.000	.0240	.1370	-.0770
165.000		.1910	-.1290
180.000	.0020		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RBOT01)

MACH (2) = 2.000

ALPHAT(2) = -6.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6450	1.3280	.4920	.1550	-.0700	-.1130	-.1370	-.1270	-.0980	-.0250	.1020	.0290	-.0410	-.1010	-.0640
30.000			.5130	.1480	-.0610	-.1060	-.1320	-.1220	-.1010	.0180	-.0360	-.0950	-.1010	-.0460	-.0460
60.000			.5690	.1860	-.0400	-.0680	-.1140	-.1070	.0040	.0870	-.2350	-.2480	-.1260	-.1130	.0270
90.000		1.4650	.6470	.2460	.0000	-.0310	-.0850	-.0810	.3040	.1350	-.2170	-.1110	-.0770	-.1080	.0300
120.000			.7270	.3170	.5490	.0090	-.0470	-.0470	-.0280	.4910	.0700	.0510	.1510	.1220	.0650
135.000								-.0320		.1040		.0910		.1530	
150.000			.7960	.3750	.0840	.0430	-.0190	-.0180	-.0040	.3340	.3530	.0980	.0880	.1220	.0350
165.000				.3820	.0910	.0520	-.0110	-.0100	.0030	.3190	.3470		.0930		.0270
180.000	1.6450	1.5860	.8110	.3790	.0040	.0500	-.0130	-.0090	.0020	.3310	.2470	.1260	.1560	.0680	.0170
270.000		1.4310													

X/LT .7449 .8526 .9290

PHI

.000	.0050	.0290	.0190
30.000	-.0190	-.0020	-.0010
60.000	-.0280	-.0180	.0050
90.000			.0310
120.000	-.0130	.0010	.0450
135.000	-.0130	.0850	-.0330
150.000	.0350	.1330	-.0720
165.000		.1890	-.1300
180.000	.0200		

MACH (2) = 2.000

ALPHAT(3) = -4.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6520	1.3770	.5390	.1860	-.0470	-.0920	-.1290	-.1220	-.0960	-.0590	.1190	.0400	-.0300	-.0870	-.0730
30.000			.5510	.1860	-.0380	-.0840	-.1240	-.1150	-.0930	.0420	-.0190	-.0620	-.0820	-.0870	-.0410
60.000			.5910	.2150	-.0240	-.0600	-.1120	-.1040	-.0410	.1720	-.2070	-.2280	-.0870	-.0760	.0220
90.000		1.4670	.6480	.2550	.0050	-.0370	-.0900	-.0810	.3180	.1520	-.2420	-.2150	-.1010	-.1200	-.0550
120.000			.7020	.2960	.0370	-.0060	-.0670	-.0620	-.0450	.4890	-.0030	.0200	.1010	.1140	.0470
135.000								-.0560		.0980		.0660		.1230	
150.000			.7430	.3350	.0590	.0140	-.0510	-.0470	-.0280	.2790	.3440	.0760	.0750	.0510	.0080
165.000				.3320	.0600	.0170	-.0470	-.0420	-.0240	.2750	.3450		.0850		-.0160
180.000	1.6520	1.5490	.7470	.3300	.0600	.0160	-.0470	-.0420	-.0260	.2840	.2420	.0800	.1490	.0460	-.0290
270.000		1.4390													

X/LT .7449 .8526 .9290

PHI

(RBO771)

$$\text{ALPHAT}(3) = -4.250$$

DEPENDENT VARIABLE CP

PHI			
.000	-.0010	.0190	.0140
30.000	-.0200	-.0060	-.0030
60.000	-.0140	-.0370	-.0040
90.000			.0340
120.000	-.0220	-.0030	.0560
135.000	-.0220	.0880	-.0300
150.000	.0090	.1280	-.0760
165.000		.1770	-.1380
180.000	.0430		

$$\text{ALPHAT}(4) = -2.210$$

DEPENDENT VARIABLE CP

[illegible]

PHI			
.000	.0000	.0140	.0150
30.000	-.0130	-.0050	.0050
60.000	.0030	-.0190	.0050
90.000			.0460
120.000	-.0190	.0200	.0770
135.000	-.0190	.0990	-.0110
150.000	.0000	.1450	-.0610
165.000		.1840	-.1250
180.000	.0540		

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBD001)

MACH (2) = 2.000

ALPHAT(5) = -.160

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6670	1.4680	.6230	.2530	.0020	-.0480	-.0940	-.0870	-.0650	-.0510	.1580	.0710	.0010	-.0380	-.0440
30.000			.6330	.2460	.0030	-.0520	-.0960	-.0870	-.0630	.0980	-.0330	.0230	-.0280	-.0560	-.0090
60.000			.6460	.2490	.0050	-.0370	-.0900	-.0860	-.0430	.3280	-.1090	-.1520	-.1010	.0190	.0270
90.000		1.4780	.6540	.2490	.0090	-.0330	-.0870	-.0840	.2720	.1910	-.2500	-.2250	.0180	-.0500	-.0680
120.000			.6460	.2480	.0020	-.0390	-.0930	-.0850	-.0550	.3380	-.0940	-.0440	-.0700	.1140	.0450
135.000								-.0830		.0740		.0270		.0490	
150.000			.6460	.2530	-.0010	-.0430	-.0970	-.0830	-.0620	.2170	.2700	.0490	.0620	-.0060	-.0050
165.000			.2470	.0010	-.0410	-.0960	-.0860	-.0610	.2090	.3260			.0850		-.0500
180.000	1.6670	1.4800	.6380	.2440	.0020	-.0410	-.0980	-.0900	-.0620	.2120	.2530	.1290	.1270	.0160	-.0770
270.000		1.4510													

X/LT .7449 .8526 .9290

PHI

.000	.0070	.0130	.0130
30.000	-.0050	-.0020	.0090
60.000	.0010	-.0100	.0230
90.000			.0630
120.000	-.0220	.0440	.1080
135.000	-.0210	.1170	.0050
150.000	-.0020	.1580	-.0440
165.000		.1880	-.1130
180.000	.0680		

MACH (2) = 2.000

ALPHAT(6) = 1.890

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6660	1.5160	.6810	.2950	.0330	-.0210	-.0720	-.0670	-.0480	-.0330	.1670	.0970	.0230	-.0240	-.0220
30.000			.6820	.2800	.0310	-.0290	-.0760	-.0660	-.0420	.0650	.0020	.0370	-.0050	-.0340	.0020
60.000			.6710	.2650	.0170	-.0270	-.0800	-.0720	-.0570	.3860	-.0590	-.1150	-.1010	.0310	.0490
90.000		1.4750	.6490	.2480	.0030	-.0400	-.0930	-.0870	.2660	.1980	-.2430	-.2460	.0640	.0700	.0410
120.000			.6250	.2270	-.0180	-.0590	-.1010	-.0910	-.0390	.2530	-.1370	-.0060	-.0440	.1150	.0380
135.000								-.0960		.0600		.0000		.0600	
150.000			.6020	.2180	-.0260	-.0660	-.1080	-.0980	-.0770	.1810	.2070	.0400	.0510	-.0220	-.0030
165.000			.2080	-.0320	-.0660	-.1090	-.1020	-.0790	.1750	.3070			.0710		-.0530
180.000	1.6660	1.4290	.5830	.2040	-.0290	-.0670	-.1160	-.1010	-.0800	.1740	.2580	.1530	.1090	.0030	-.0990
270.000		1.4560													

X/LT .7449 .8526 .9290

PHI

(R00T01)

$$\text{ALPHAT}(6) = 1.895$$

DEPENDENT VARIABLE CP

PHI			
.000	.0100	.0110	.0090
30.000	.0070	.0030	.0160
60.000	.0070	-.0030	.0310
90.000			.0330
120.000	-.0140	.0660	.1390
135.000	-.0130	.1290	.0290
150.000	.0100	.1700	-.0280
165.000		.1910	-.0990
180.000	.1130		

ALPHAT(7) = 3.930

DEPENDENT VARIABLE CP

[illegible]

PHI			
.000	.0140	.0190	.0170
30.000	.0210	.0150	.0240
60.000	.0190	.0060	.0560
90.000			.0270
120.000	.0080	.0900	.1330
135.000	.0080	.1530	.0640
150.000	.0330	.1780	-.0060
165.000		.2040	-.0850
180.000	.1370		

AMES 97-707 1A9 CCA + S3 + T9 EXTERNAL TANK

(RDOT01)

MACH (2) = 2.000

ALPHAT (8) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6460	1.5800	.7840	.3770	.0830	.0250	-.0240	-.0180	-.0060	.0120	.1610	.1410	.0740	.0230	.0460
30.000			.7660	.3510	.0670	.0090	-.0340	-.0290	-.0150	.0990	.0650	.0490	.0480	.0160	.0150
60.000			.7100	.2980	.0300	-.0120	-.0710	-.0600	-.0420	.4490	.0300	-.0420	-.0320	.0010	.0710
90.000		1.4580	.6300	.2300	-.0200	-.0500	-.0960	-.0890	.2770	.1870	-.2080	-.2150	-.0370	.0840	.0730
120.000			.5470	.1700	-.0510	-.0790	-.1250	-.1130	-.0130	.1020	-.2290	-.1880	-.0010	.0980	.0230
135.000								-.1270		.0330		-.0410		.0340	
150.000			.4980	.1320	-.0690	-.0960	-.1410	-.1310	-.1040	.1160	.1790	.0720	.0160	-.0670	-.0160
165.000				.1200	-.0750	-.1000	-.1430	-.1340	-.0970	.1100	.2550		.0580		-.0840
180.000	1.6460	1.3360	.4790	.1200	-.0760	-.1020	-.1450	-.1330	-.0960	.1120	.2650	.0790	.1100	-.0120	-.1170
270.000		1.4430													

X/LT	.7449	.8526	.9290
PHI			
.000	.0230	.0330	.0350
30.000	.0350	.0360	.0330
60.000	.0300	.0190	.0760
90.000			.0280
120.000	.0230	.1340	.1490
135.000	.0220	.1780	.1140
150.000	.0720	.2000	.0360
165.000		.2100	-.0500
180.000	.1670		

MACH (2) = 2.000

ALPHAT (9) = 8.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6340	1.6140	.8500	.4270	.1150	.0530	.0010	.0050	.0190	.0370	.1850	.1500	.0970	.0510	.0710
30.000			.8210	.3870	.0930	.0280	-.0180	-.0110	.0090	.1280	.0730	.0740	.0690	.0430	.0350
60.000			.7340	.3100	.0340	-.0040	-.0640	-.0520	-.0360	.4620	.0690	-.0010	.0100	.0320	.0830
90.000		1.4470	.6220	.2200	-.0200	-.0530	-.1040	-.0960	.2930	.1570	-.1900	-.1810	-.1400	.0930	.0720
120.000			.5210	.1430	-.0670	-.0950	-.1390	-.1270	-.0260	.0220	-.2620	-.2470	-.0920	.0690	.0060
135.000								-.1390		.0170		-.0300		.0360	
150.000			.4640	.1140	-.0940	-.1170	-.1570	-.1430	-.0970	.0860	.1700	.0560	-.0060	-.1030	-.0190
165.000				.0950	-.1000	-.1200	-.1570	-.1450	.0140	.0810	.2260		.0420		-.0850
180.000	1.6340	1.2900	.4440	.0830	-.1020	-.1210	-.1590	-.1440	.0320	.0810	.2720	.0160	.0960	-.0130	-.1410
270.000		1.4360													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1863

AMES 97-757 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT01)

MACH (2) = 2.000

ALPHAT(9) = 8.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0390	.0480	.0490
30.000	.0500	.0500	.0470
60.000	.0410	.0340	.0900
90.000			.0510
120.000	.0240	.1450	.1640
135.000	.0240	.1930	.1230
150.000	.1040	.2130	.0550
165.000		.2180	-.0210
180.000	.1780		

AMES 97-707 IAS O2A + S3 + T9 EXTERNAL TANK

(RBOT02) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4540	1.4930	.8260	.3820	.0630	-.0120	-.0840	-.0680	-.0410	.0700	.1520	.0540	.0100	-.0080	.0850
30.000			.9140	.4550	.1090	.0370	-.0470	-.0210	.0020	.2060	.0590	-.0170	.0280	.0550	.0700
60.000			.9130	.4430	.1030	.0360	-.0520	-.0340	.3410	.4020	-.0790	-.0580	.0260	.0670	.0900
90.000		1.4660	.8040	.3500	.0300	-.0300	-.1090	-.1010	.5670	-.0770	-.3670	-.2610	-.0790	.0790	.1290
120.000			.6380	.2230	-.0700	-.1200	-.1840	-.1750	.0640	-.1380	-.3200	-.2030	.0100	.1020	.0820
135.000								-.2140		-.1070		-.1530		.1050	
150.000			.4930	.1110	-.1470	-.1860	-.2460	-.2410	-.0030	-.0230	.0600	.0000	-.0220	.0360	.0350
165.000				.0670	-.1720	-.2130	-.2660	-.2530	-.0190	.0980	.1470		-.0340		-.0090
180.000	1.4540	1.1440	.4040	.0440	-.1870	-.2250	-.2790	-.2580	-.0080	.0840	.0860	.0370	-.0750	-.1710	-.1100
270.000		1.1640													

X/LT .7449 .8526 .9290

PHI

.000	-.0050	-.0140	.0750
30.000	.0470	.0220	.0700
60.000	.0660	.0860	.0870
90.000		-.1250	
120.000	.1080	.3840	.2780
135.000	.1040	.4000	.2780
150.000	.0910	.3920	.3070
165.000		.3490	.3070
180.000	.0160		

MACH (1) = 1.555

BETAT (2) = -5.100

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4810	1.5130	.8370	.3830	.0540	-.0180	-.0910	-.0700	-.0470	.0580	.1860	.0820	.0110	-.0070	.0950
30.000			.8860	.4250	.0830	.0080	-.0630	-.0450	-.0160	.2030	.0830	.0200	.0300	.0510	.0600
60.000			.8500	.3890	.0630	.0010	-.0870	-.0540	.2990	.4150	-.0810	-.0690	.0240	.0740	.0680
90.000		1.4480	.7450	.2920	-.0130	-.0710	-.1300	-.1260	.5330	-.0810	-.3670	-.2670	-.0730	.0730	.0940
120.000			.5980	.1820	-.0950	-.1430	-.1960	-.1910	.0390	-.1370	-.3040	-.2070	.0030	.0850	.0440
135.000								-.2200		-.0240		-.1230		.0700	
150.000			.4860	.0960	-.1620	-.1940	-.2540	-.2410	.0210	.0090	.0830	-.0210	-.0310	-.0040	.0090

(RBO102)

BETAT (2) = -5.100

DEPENDENT VARIABLE CP

.000	.0150	.0050	.0150
30,000	.0440	.0260	.0800
60,000	.0520	.0770	.0820
90,000			-.1310
120,000	.1070	.3570	.2430
135,000	.1130	.3760	.2320
150,000	.1130	.3520	.2770
165,000		.3510	.3350
180,000	.0080		

BETAT (3) = -3.050

DEPENDENT VARIABLE CP

.000	.0180	.0290	.0380
30.000	.0290	.0250	.0800
60.000	.0370	.0740	.0710
90.000			-.1090
120.000	.1000	.3310	.1920
135.000	.1030	.3410	.1620
150.000	.1060	.3270	.1680

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RBO702)

MACH (1) = 1.555

BETAT (3) = -3.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3400 .2230

180.000 .0400

MACH (1) = 1.555

BETAT (4) = 5.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4760	1.5000	.8420	.4050	.0710	-.0030	-.0730	-.0590	-.0360	.0550	.1860	.0860	.0140	-.0110	.0750
30.000			.7200	.3010	-.0110	-.0820	-.1400	-.1250	-.0910	.1700	.1630	.0440	-.0220	-.0100	-.0100
60.000			.5840	.1760	-.0990	-.1420	-.2050	-.1910	.1400	.4390	.0220	.0140	.0430	.0120	-.0310
90.000		1.2150	.4820	.0920	-.1530	-.1890	-.2450	-.2370	.3530	-.1050	-.3340	-.2540	-.1390	-.1010	-.0550
120.000			.4180	.0500	-.1810	-.2130	-.2590	-.2430	.0290	-.0040	-.1040	-.1820	.0170	-.0160	-.0010
135.000							-.2440		.0560		-.0910		-.0390		
150.000			.4080	.0470	-.1890	-.2180	-.2620	-.2430	.0270	.1200	.0820	-.0180	-.1640	-.1150	.0670
165.000				.0440	-.1880	-.2190	-.2620	-.2440	.0120	.1670	.0860		-.1130		.0870
180.000	1.4760	1.1630	.4280	.0480	-.1810	-.2130	-.2650	-.2470	.0450	.1360	.1510	.0950	-.0500	-.1640	.0490
270.000		1.4450													

X/LT .7449 .8526 .9290

PHI

.000	.0200	.0160	.0300
30.000	-.0220	.0020	.0450
60.000	.0030	.0330	.0850
90.000			.0160
120.000	.0360	.1200	.0920
135.000	.0330	.0710	.0740
150.000	.0220	-.0470	.0510
165.000		-.1230	-.0450
180.000	.0320		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1867

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBOY02)

MACH (1) = 1.555

BETAT (5) = 7.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4580	1.4820	.8290	.4000	.0680	-.0070	-.0760	-.0590	-.0420	.0780	.1260	.0580	.0120	.0000	.0740
30.000			.6760	.2660	-.0370	-.1040	-.1600	-.1490	-.1020	.1640	.1370	.0290	-.0220	-.0190	-.0260
60.000			.5210	.1370	-.1270	-.1700	-.2270	-.2010	.0390	.3520	.0660	.0380	.0400	-.0110	-.0320
90.000		1.1660	.4240	.0570	-.1810	-.2160	-.2640	-.2520	.3590	-.1130	-.3230	-.2210	-.1460	-.1570	.0090
120.000			.3770	.0220	-.1960	-.2230	-.2650	-.2460	.0060	-.0010	-.0510	-.1500	-.0010	-.0370	.0430
135.000								-.2450		.0660		-.1040		-.0560	
150.000			.3710	.0250	-.1920	-.2240	-.2720	-.2460	.0300	.1610	.0950	-.0270	-.1900	-.1280	.0290
165.000				.0300	-.1920	-.2210	-.2720	-.2460	.0300	.1720	.0910		-.1380		.0290
180.000	1.4580	1.1480	.4160	.0460	-.1860	-.2180	-.2680	-.2420	.0290	.0970	.1800	.0320	-.0930	-.1540	-.1360
270.000		1.4660													

X/LT .7449 .8526 .9290

PHI

.000	.0020	.0090	.0890
30.000	-.0340	.0780	.0590
60.000	.0940	.0730	.0590
90.000			.0370
120.000	.0780	.0740	.0650
135.000	.0920	.0140	.0530
150.000	.1160	-.1490	-.0270
165.000		-.1330	-.1340
180.000	.0670		

MACH (1) = 1.555

BETAT (6) = 9.190

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4450	1.4630	.8110	.3870	.0550	-.0160	-.0830	-.0700	-.0480	.0800	.0460	.0200	.0110	-.0020	.0700
30.000			.6300	.2260	-.0630	-.1240	-.1760	-.1660	-.1340	.1700	.1240	.0170	-.0190	.0010	.0370
60.000			.4690	.0920	-.1510	-.1930	-.2500	-.2120	.0440	.2100	.0980	.0600	.0090	.0220	-.0060
90.000		1.1110	.3800	.0210	-.1940	-.2300	-.2810	-.2590	.3620	-.1170	-.3020	-.1980	-.0530	-.0490	.0520
120.000			.3480	.0010	-.2030	-.2310	-.2760	-.2510	.0000	.0320	-.0130	-.1110	.0390	.0080	.0350
135.000								-.2510		.0630		-.1100		-.0040	
150.000			.3600	.0060	-.2050	-.2360	-.2750	-.2370	.0180	.1530	.1280	-.0530	-.1910	-.0600	.0560
165.000				.0120	-.2030	-.2350	-.2490	-.2330	-.0070	.1380	.0450		-.1880		.0810
180.000	1.4450	1.1420	.4120	.0340	-.1920	-.2260	-.2470	-.2310	-.0350	.1230	.0800	-.1220	-.1330	-.1140	.0990
270.000		1.4980													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOT02)

MACH (1) = 1.555

BETAT (6) = 9.190

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0410	.0190	.0380
30.000	-.0010	.0090	-.0090
60.000	.0420	.0250	.0150
90.000			.0170
120.000	-.0110	-.0150	.0600
135.000	.0040	-.1010	.0060
150.000	.0380	-.2340	-.1000
165.000		-.2170	-.1390
180.000	.0270		

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5860	1.5840	.8310	.4070	.1090	.0480	-.0080	-.0040	-.0020	.0020	.0940	.0880	.0490	.0220	.0830
30.000			.9360	.4870	.1660	.0960	.0350	.0460	.0500	.2350	.1490	.0520	.0290	.0610	.0650
60.000			.9360	.4860	.1660	.1110	.0370	.0410	.0690	.5830	.0430	.0120	.0370	.0620	.1030
90.000		1.5730	.8300	.3980	.1010	.0580	-.0100	-.0080	.3920	.1910	-.1890	-.1750	-.1340	.0300	.0590
120.000			.6630	.2730	.0110	-.0240	-.0790	-.0750	.0290	.0410	-.2690	-.2380	-.1150	.0540	.0410
135.000								-.1120		.0120		-.1280		.0840	
150.000			.5030	.1540	-.0690	-.0960	-.1400	-.1360	-.1240	-.0660	-.0420	.1140	.0140	.0290	.1010
165.000				.1060	-.0990	-.1190	-.1570	-.1530	-.1270	.0930	.2770		-.0350		.0570
180.000	1.5860	1.2470	.4020	.0760	-.1150	-.1320	-.1660	-.1420	-.0480	.0700	.2410	-.0480	-.0090	-.1010	-.0600
270.000		1.2430													

X/LT .7449 .8526 .9290

PHI

.000	.0270	.0330	.0210
30.000	.0700	.0740	.0890
60.000	.0860	.0890	.1370
90.000			.0420
120.000	.1280	.3190	.3440
135.000	.1180	.3740	.3320
150.000	.1240	.3150	.3530
165.000		.6010	.3120
180.000	-.0580		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1869

AMES 97-757 1A9 O2A + S3 + T9 EXTERNAL TANK

(RDOT02)

MACH (2) = 2.000

BETAT (2) = -5.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5990	1.5920	.8360	.4180	.1140	.0510	-.0080	-.0020	.0110	.0170	.1580	.1040	.0470	.0380	.0960
30.000			.9070	.4620	.1530	.0850	.0240	.0340	.0460	.2400	.1270	.0660	.0500	.0560	.0620
60.000			.8780	.4390	.1460	.0890	.0190	.0200	.0380	.6020	.0490	.0030	.0230	.0530	.0880
90.000		1.5450	.7670	.3480	.0810	.0320	-.0320	-.0270	.3740	.1830	-.1860	-.1790	-.1440	.0260	.0710
120.000			.6200	.2380	.0030	-.0390	-.0920	-.0860	.0170	.0240	-.2750	-.2490	-.1260	.0660	.0460
135.000								-.1140		.0000		-.1470		.0810	
150.000			.4940	.1480	-.0660	-.0970	-.1400	-.1320	-.1220	-.0030	.0390	.0450	-.0030	.0190	.0590
165.000				.1090	-.0880	-.1160	-.1520	-.1460	-.1280	.0990	.2530		.0290		.0090
180.000	1.5990	1.2610	.4120	.0870	-.0990	-.1270	-.1610	-.1500	-.0850	.0940	.3090	.0630	.0010	-.0550	-.0680
270.000		1.2940													

X/LT .7449 .8526 .9290

PHI

.000	.0370	.0430	.0410
30.000	.0740	.0760	.0790
60.000	.0760	.0780	.1260
90.000			.0660
120.000	.1050	.2930	.2800
135.000	.0920	.3220	.2590
150.000	.0910	.3010	.2700
165.000		.6240	.2340
180.000	-.0640		

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6240	1.6130	.8430	.4250	.1160	.0500	-.0060	.0000	.0140	.0310	.1720	.1360	.0760	.0430	.0870
30.000			.8700	.4400	.1350	.0690	.0120	.0210	.0410	.2470	.0590	.0950	.0630	.0540	.0620
60.000			.8160	.3980	.1070	.0610	.0000	.0030	.0170	.6160	.0550	-.0060	.0150	.0460	.0870
90.000		1.5160	.7090	.3090	.0490	.0090	-.0510	-.0480	.3430	.1760	-.1900	-.1830	-.1450	.0500	.0980
120.000			.5800	.2100	-.0200	-.0550	-.1070	-.1050	.0040	.0260	-.2670	-.2480	-.1170	.0730	.0420
135.000								-.1270		.0030		-.1350		.0730	
150.000			.4760	.1360	-.0750	-.1050	-.1470	-.1410	-.1200	.0720	.1350	.0240	.0140	.0020	.0170
165.000				.1110	-.0990	-.1160	-.1580	-.1500	-.1210	.1170	.1900		.0300		-.0310
180.000	1.6240	1.2830	.4240	.0900	-.0990	-.1220	-.1630	-.1540	-.0880	.1060	.2640	.1300	.0370	-.0450	-.0920
270.000		1.3560													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBOT02)

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0420	.0500	.0550
30.000	.0660	.0690	.0670
60.000	.0690	.0580	.1050
90.000			.0450
120.000	.0750	.2540	.2490
135.000	.0610	.2920	.2270
150.000	.0540	.3290	.1870
165.000		.4910	.1150
180.000	.0980		

MACH (2) = 2.000

BETAT (4) = 3.990

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6290	1.6100	.8520	.4340	.1120	.0510	.0010	.0060	.0190	.0400	.2210	.1440	.0760	.0430	.0790
30.000			.7480	.3370	.0550	-.0040	-.0430	-.0370	.0120	.1460	.0330	.0490	.0440	.0300	.0230
60.000			.6190	.2310	-.0140	-.0430	-.0920	-.0880	-.0110	.2210	.1100	.0220	.0410	.0430	.0570
90.000		1.3540	.5150	.1480	-.0680	-.0910	-.1330	-.1260	.2130	.1420	-.1760	-.1650	-.1420	-.0060	-.0470
120.000			.4440	.0980	-.0990	-.1140	-.1540	-.1420	-.0180	.0670	-.2300	-.1540	-.0660	.0430	-.0310
135.000								-.1480		.0250		.0650		-.0640	
150.000			.4210	.0870	-.1110	-.1250	-.1590	-.1470	.0380	.0900	.1910	.0480	-.0100	-.1120	-.0690
165.000				.0800	-.1120	-.1230	-.1580	-.1480	.0390	.0850	.2320		.0340		-.1580
180.000	1.6290	1.2870	.4320	.0860	-.1070	-.1200	-.1580	-.1420	-.0450	.0880	.2480	.1110	.0590	-.0440	-.0980
270.000		1.5300													

X/LT .7449 .8526 .9290

PHI

.000	.0380	.0430	.0460
30.000	.0240	.0360	.0210
60.000	.0160	.0160	.0420
90.000			.0480
120.000	.0420	.0770	.0630
135.000	.0520	.0480	.0120
150.000	.0730	-.0010	-.0370
165.000		-.0050	-.0550
180.000	.0850		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1871

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBD002)

MACH (2) = 2.000

BETAT (5) = 6.060

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6140	1.5980	.8410	.4270	.1180	.0520	-.0010	.0040	.0160	.0290	.1300	.1140	.0440	.0350	.0840
30.000			.7080	.3090	.0410	-.0160	-.0570	-.0530	-.0130	.1680	.0730	.0830	.0490	.0190	.0140
60.000			.5620	.1970	-.0370	-.0670	-.1140	-.1050	-.0330	.0480	.1270	.0430	.0500	.0530	.0330
90.000		1.3090	.4580	.1160	-.0890	-.1120	-.1510	-.1440	.1590	.1430	-.1680	-.1570	-.1110	.0420	-.0910
120.000			.4000	.0830	-.1080	-.1280	-.1640	-.1540	-.0130	.0690	-.2120	-.0680	.0130	.0220	-.0830
135.000								-.1530		.0380		-.0210		-.0300	
150.000			.3920	.0750	-.1090	-.1270	-.1620	-.1510	.0120	.0870	.1890	.0310	-.0440	-.1240	-.0790
165.000				.0760	-.1070	-.1250	-.1610	-.1470	-.0380	.0850	.2110		-.0110		-.1630
180.000	1.6140	1.2750	.4210	.0870	-.1050	-.1230	-.1530	-.1310	-.0570	.0650	.2520	.0750	.0230	-.0450	-.0670
270.000		1.5570													

X/LT .7449 .8526 .9290

PHI															
.000	.0300	.0350	.0220												
30.000	.0040	.0160	.0040												
60.000	-.0090	.0130	.0340												
90.000			.0110												
120.000	.0200	.0500	.0380												
135.000	.0090	.0140	-.0260												
150.000	.0150	-.0570	-.0120												
165.000		-.0760	-.1010												
180.000	-.0720														

MACH (2) = 2.000

BETAT (6) = 8.120

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5940	1.5760	.8300	.4200	.1100	.0460	-.0060	.0000	.0080	.0160	.0700	.0720	.0500	.0140	.0650
30.000			.6720	.2740	.0130	-.0430	-.0790	-.0750	-.0460	.1600	.1060	.0630	.0290	.0060	.0020
60.000			.5150	.1510	-.0710	-.0930	-.1380	-.1170	-.0530	-.0460	.1350	.0650	.0490	.0380	-.0020
90.000		1.2570	.4150	.0770	-.1180	-.1340	-.1700	-.1510	.1160	.1350	-.1630	-.1500	-.0780	-.0360	-.1380
120.000			.3730	.0490	-.1300	-.1420	-.1760	-.1630	.0100	.0560	-.1870	-.0120	.0360	-.0300	-.1160
135.000								-.1620		.0270		-.0370		-.0560	
150.000			.3750	.0530	-.1280	-.1390	-.1730	-.1520	-.0260	.0680	.1930	.0160	-.0780	-.1420	-.0990
165.000				.0620	-.1210	-.1360	-.1580	-.1450	-.0460	.0580	.1910		-.0540		-.1610
180.000	1.5940	1.2590	.4170	.0830	-.1110	-.1270	-.1540	-.1370	-.0650	.0360	.2390	-.0400	-.0250	-.0990	-.0530
270.000		1.5800													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBOT02)

MACH (2) = 2.000

BETAT (6) = 8.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0110	.0160	.0020
30.000	-.0140	-.0100	-.0170
60.000	-.0120	-.0020	.0190
90.000			.0120
120.000	.0000	.0230	.1090
135.000	-.0290	-.0370	.0300
150.000	-.0260	-.0770	-.0660
165.000		-.0090	-.0950
180.000	-.0600		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1873

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBOT03) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4730	1.4650	.7700	.3340	.0180	-.0560	-.1130	-.1010	-.0710	.0400	.1300	.0300	-.0220	-.0420	.0520
30.000			.8650	.4090	.0710	-.0040	-.0760	-.0510	-.0250	.1730	.0210	-.0640	-.0060	.0290	.0440
60.000			.8820	.4160	.0810	.0200	-.0640	-.0510	.2970	.3550	-.1320	-.1040	-.0050	.0560	.0770
90.000		1.4810	.8140	.3570	.0340	-.0230	-.1050	-.0980	.5780	-.0630	-.2590	-.1890	-.0180	.0790	.1220
120.000			.6800	.2520	-.0480	-.0980	-.1660	-.1590	.0950	-.0550	-.2800	-.1460	.0090	.1080	.0890
135.000								-.1900		-.0360		-.0270		.1090	
150.000			.5480	.1490	-.1300	-.1650	-.2210	-.2150	-.1420	.0110	.1550	.0200	-.0150	.0690	.0550
165.000				.0990	-.1550	-.1880	-.2420	-.2350	.0130	.1440	.1820		-.0610		-.0340
180.000	1.4730	1.2000	.4540	.0690	-.1720	-.2010	-.2600	-.2490	.0290	.1090	.1110	.0580	-.0760	-.1630	-.1480
270.000		1.1700													

X/LT .7449 .8526 .9290

PHI
 .000 -.0250 -.0090 .0770
 30.000 .0220 .0090 .0640
 60.000 .0470 .0890 .0630
 90.000 -.1540
 120.000 .0780 .3690 .2510
 135.000 .0700 .4050 .2590
 150.000 .0500 .4310 .2650
 165.000 .4250 .2500
 180.000 -.0390

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5010	1.4860	.7810	.3370	.0200	-.0520	-.1190	-.1030	-.0700	.0420	.1630	.0510	-.0200	-.0450	.0610
30.000			.8390	.3830	.0480	-.0210	-.0930	-.0690	-.0370	.1580	.0510	-.0200	-.0180	.0230	.0320
60.000			.8270	.3740	.0440	-.0110	-.0970	-.0770	.2680	.3670	-.1290	-.1160	-.0070	.0630	.0520
90.000		1.4650	.7540	.3060	-.0010	-.0620	-.1400	-.1150	.5350	-.0660	-.2510	-.1960	-.0200	.0740	.0910
120.000			.6410	.2140	-.0680	-.1180	-.1880	-.1630	.0700	-.0480	-.2640	-.1610	.0020	.0930	.0550
135.000								-.1950		.0090		-.0420		.0910	
150.000			.5400	.1420	-.1320	-.1720	-.2290	-.2220	-.1270	.0510	.1610	-.0060	-.0540	.0360	.0210

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBD003)

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.1040	-.1530	-.1900	-.2450	-.2310	.0410	.1320	.1930		-.0770		-.0430
180.000	1.5010	1.2250	.4750	.0750	-.1670	-.2030	-.2520	-.2400	.0600	.1120	.1640	.0650	-.0240	-.1670	-.0920
270.000		1.2390													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0090	-.0100	.0170
30.000	.0170	.0200	.0640
60.000	.0270	.0760	.0630
90.000			-.1620
120.000	.0520	.3450	.2060
135.000	.0710	.3680	.2090
150.000	.0970	.3740	.2200
165.000		.4230	.1870
180.000	.0020		

MACH (1) = 1.555

BETAT (3) = -3.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5090	1.4900	.7850	.3400	.0210	-.0510	-.1150	-.0960	-.0670	.0380	.1930	.0650	-.0180	-.0480	.0470
30.000			.8060	.3630	.0420	-.0320	-.1000	-.0810	-.0550	.1630	.0720	.0080	-.0120	.0050	.0110
60.000			.7700	.3280	.0170	-.0400	-.1150	-.1020	.2400	.3830	-.1200	-.1190	-.0090	.0560	.0310
90.000		1.4210	.6930	.2530	-.0350	-.0890	-.1580	-.1470	.4980	-.0690	-.3070	-.2260	.0010	.0540	.0590
120.000			.5960	.1810	-.0910	-.1360	-.1990	-.1840	.0580	-.0380	-.2430	-.2320	.0190	.0840	.0100
135.000								-.2060	.0610			-.0850		.0660	
150.000			.5250	.1270	-.1320	-.1730	-.2300	-.2170	-.0370	.0770	.1740	-.0570	-.0700	-.0170	.0070
165.000				.1000	-.1460	-.1820	-.2400	-.2270	.0140	.1520	.1580		-.0540		-.0260
180.000	1.5090	1.2360	.4830	.0850	-.1640	-.1950	-.2440	-.2300	.0250	.1120	.1330	.0910	-.0760	-.1560	.1280
270.000		1.2950													

X/LT	.7449	.8526	.9290
PHI			
.000	.0010	.0170	.0370
30.000	.0060	.0200	.0700
60.000	.0130	.0640	.0590
90.000			-.1000
120.000	.0710	.3040	.1810
135.000	.0710	.3180	.1740
150.000	.0710	.3340	.1850

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1873

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBO703)

MACH (1) = 1.555

BETAT (3) = -3.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI
165.000 .3440 .1660
180.000 .0180

MACH (1) = 1.555

BETAT (4) = 5.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI
.000 1.4970 1.4790 .7870 .3550 .0340 -.0370 -.1040 -.0880 -.0700 .0400 .1690 .0550 -.0200 -.0500 .0400
30.000 .6810 .2670 -.0360 -.1060 -.1600 -.1430 -.0960 .1360 .1260 .0160 -.0620 -.0460 -.0310
60.000 .5720 .1690 -.1050 -.1490 -.2120 -.1910 .1270 .4710 -.0410 -.0460 .0210 .0080 -.0520
90.000 1.2340 .4950 .0980 -.1480 -.1850 -.2370 -.2270 .3660 -.0840 -.3660 -.2410 -.0360 -.1080 -.0460
120.000 .4440 .0720 -.1670 -.1970 -.2450 -.2340 .0490 .0760 -.0450 -.1730 .0160 -.0090 -.0570
135.000 .4420 .0700 -.1680 -.2040 -.2540 -.2360 .0540 .1360 .1190 -.0180 -.1650 -.0820 .0400
150.000 .0740 -.1640 -.1970 -.2530 -.2340 .0560 .2210 .0820 -.1230 .0560
165.000 .4710 .0820 -.1590 -.1900 -.2430 -.2330 -.0520 .2700 .1130 .0570 -.0510 -.1680 .0100
180.000 1.4970 1.2230
270.000 1.4640

X/LT .7449 .8526 .9290

PHI
.000 -.0050 .0050 .0280
30.000 -.0350 .0120 .0660
60.000 .0000 .0200 .0680
90.000 .0340
120.000 .0120 .1020 .0860
135.000 .0050 .0540 .0640
150.000 -.0040 -.0870 .0400
165.000 -.1130 -.0850
180.000 .0100

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBOT03)

MACH (1) = 1.555

BETAT (3) = 7.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4840	1.4670	.7750	.3520	.0290	-.0390	-.1060	-.0950	-.0710	.0520	.0990	.0330	-.0160	-.0320	.0440
30.000			.6450	.2330	-.0600	-.1240	-.1770	-.1650	-.1160	.1300	.1280	.0060	-.0630	-.0500	-.0490
60.000			.5190	.1330	-.1320	-.1790	-.2370	-.2050	.0140	.3210	.0010	-.0190	.0190	-.0200	-.0560
90.000		1.1860	.4380	.0650	-.1680	-.2070	-.2590	-.2520	.3400	-.0920	-.3530	-.2120	-.0700	-.1810	-.0290
120.000			.4020	.0490	-.1840	-.2150	-.2600	-.2440	.0260	.0930	.0000	-.1580	-.0170	-.0290	-.0410
135.000								-.2410		.0840		-.0860		-.0360	
150.000			.4110	.0560	-.1780	-.2130	-.2610	-.2460	.0330	.2050	.1390	-.0450	-.1920	-.1100	.0050
165.000				.0620	-.1750	-.2080	-.2560	-.2320	-.0090	.2010	.0920		-.1550		.0290
180.000	1.4840	1.2140	.4550	.0790	-.1620	-.2000	-.2490	-.2220	-.0530	.1770	.1330	-.0020	-.1000	-.1670	-.1440
270.000		1.4890													

X/LT .7449 .8526 .9290

PHI

.000	-.0250	.0170	.0760
30.000	-.0350	.0720	.0540
60.000	.1060	.0660	.0540
90.000			.0320
120.000	.0630	.0680	.0540
135.000	.0570	-.0040	.0300
150.000	.0890	-.1450	-.0470
165.000		-.1290	-.1440
180.000	-.0320		

MACH (1) = 1.555

BETAT (6) = 9.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4610	1.4370	.7550	.3370	.0170	-.0510	-.1120	-.1030	-.0780	.0380	.0500	-.0060	-.0220	-.0340	.0330
30.000			.5940	.1930	-.0880	-.1480	-.1950	-.1840	-.1260	.1580	.1030	-.0090	-.0640	-.0280	.0160
60.000			.4650	.0870	-.1580	-.1930	-.2490	-.2110	.0080	.3210	.0480	.0050	.0020	.0160	-.0310
90.000		1.1220	.3960	.0300	-.1890	-.2230	-.2720	-.2510	.3360	-.0880	-.3330	-.1770	-.0370	-.1200	.0210
120.000			.3640	.0170	-.1960	-.2230	-.2660	-.2450	.0130	.1220	.0480	-.1330	.0180	.0300	.0120
135.000								-.2450		.0440		-.1060		.0120	
150.000			.3800	.0240	-.1940	-.2240	-.2690	-.2360	.0300	.1920	.1400	-.0640	-.2140	-.0590	.0180
165.000				.0330	-.1840	-.2190	-.2560	-.2300	.0010	.1670	.0460		-.2030		.0590
180.000	1.4610	1.1980	.4440	.0620	-.1730	-.2050	-.2550	-.2190	-.0430	.1720	.0920	-.0960	-.1540	-.1560	.0060
270.000		1.5120													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1677

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBOT03)

MACH (1) = 1.555

BETAT (6) = 9.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0180	.0080	.0370
30.000	.0030	.0140	-.0060
60.000	.0210	.0160	.0080
90.000			-.0020
120.000	-.0210	-.0230	.0350
135.000	-.0250	-.1090	-.0280
150.000	.0190	-.1880	-.1040
165.000		-.1750	-.1490
180.000	-.0240		

MACH (2) = 2.000

BETAT (1) = -8.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6040	1.5620	.7730	.3620	.0800	.0200	-.0340	-.0310	-.0250	-.0200	.1290	.0600	.0230	-.0050	.0500
30.000			.8840	.4430	.1390	.0710	.0090	.0190	.0250	.1990	.1240	.0130	.0070	.0330	.0440
60.000			.9080	.4640	.1500	.0940	.0220	.0320	.0590	.5190	.0110	-.0250	.0030	.0390	.0940
90.000		1.5930	.8370	.4070	.1120	.0590	-.0080	-.0080	.3760	.2040	-.2100	-.2030	-.1240	.1040	.1100
120.000			.7020	.2970	.0360	-.0080	-.0640	-.0590	.0540	.1120	-.2360	-.2010	-.0510	.1310	.0610
135.000								-.0920		.0480		-.1200		.1150	
150.000			.5540	.1950	-.0420	-.0740	-.1200	-.1170	-.1050	-.0270	.0310	.1110	.0320	.0360	.1100
165.000				.1460	-.0700	-.0990	-.1420	-.1380	-.1160	.1130	.2990		.0000		.0390
180.000	1.6040	1.2970	.4470	.1110	-.0880	-.1160	-.1560	-.1340	-.0650	.0810	.2600	-.0360	-.0130	-.1000	-.0650
270.000		1.2600													

X/LT .7449 .8526 .9290

PHI

.000	.0080	.0090	-.0030
30.000	.0500	.0450	.0610
60.000	.0760	.0780	.1220
90.000			.0300
120.000	.1320	.3220	.3170
135.000	.1120	.3410	.2820
150.000	.1150	.2870	.3420
165.000		.6350	.3250
180.000	-.0520		

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOT03)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6200	1.5740	.7790	.3670	.0710	.0120	-.0340	-.0300	-.0140	-.0060	.1180	.0750	.0340	.0170	.0600
30.000			.8540	.4120	.1100	.0460	-.0030	.0030	.0200	.1130	.0250	.0070	.0220	.0440	
60.000			.8540	.4110	.1160	.0730	-.0010	.0070	.0250	.5360	.0060	-.0420	-.0150	.0200	.0760
90.000		1.5630	.7800	.3500	.0770	.0340	-.0300	-.0250	.3540	.2010	-.2120	-.2100	-.1330	.0900	.1000
120.000			.6580	.2590	.0130	-.0220	-.0780	-.0700	.0420	.1060	-.2440	-.1640	-.0660	.1240	.0490
135.000								-.0970		.0330		-.1240		.1070	
150.000			.5410	.1710	-.0510	-.0760	-.1210	-.1190	-.1000	.0050	.1540	.0680	.0260	.0110	.0650
165.000				.1360	-.0770	-.0960	-.1380	-.1300	-.1080	.1400	.2650		.0320		-.0050
180.000	1.6200	1.3120	.4580	.1100	-.0900	-.1100	-.1490	-.1390	-.0990	.1060	.2710	.0790	-.0020	-.0460	-.0720
270.000		1.3070													

X/LT .7449 .8526 .9290

PHI

.000	.0130	.0190	.0150
30.000	.0490	.0450	.0510
60.000	.0650	.0620	.1090
90.000			.0310
120.000	.0960	.2280	.2740
135.000	.0820	.3090	.2400
150.000	.0780	.2800	.2520
165.000		.6070	.1670
180.000	-.0650		

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6380	1.5800	.7890	.3720	.0810	.0200	-.0300	-.0260	-.0110	.0110	.1920	.1140	.0460	.0070	.0560
30.000			.8230	.3980	.1100	.0410	-.0140	.0000	.0130	.2020	.0510	.0540	.0300	.0200	.0350
60.000			.7940	.3790	.0920	.0460	-.0140	-.0070	.0060	.5430	.0030	-.0440	-.0250	.0140	.0780
90.000		1.5230	.7140	.3150	.0500	.0110	-.0460	-.0440	.3270	.1940	-.2110	-.2160	-.1330	.0900	.0990
120.000			.6160	.2410	-.0020	-.0360	-.0850	.0130	.0130	.1030	-.2380	-.1620	-.0660	.0970	.0460
135.000								-.1070		.0250		-.0630		.0820	
150.000			.5270	.1740	-.0480	-.0780	-.1250	-.1230	-.1100	.1180	.2530	.0470	.0210	.0000	.0200
165.000				.1480	-.0660	-.0930	-.1350	-.1320	-.1140	.1490	.2700		.0330		-.0300
180.000	1.6380	1.3290	.4730	.1260	-.0760	-.1030	-.1450	-.1370	-.1150	.1330	.2670	.1350	.0380	-.0370	-.1020
270.000		1.3690													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1879

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT03)

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0220	.0310	.0340
30.000	.0430	.0430	.0460
60.000	.0530	.0430	.0910
90.000			.0300
120.000	.0740	.1950	.2270
135.000	.0530	.2670	.2000
150.000	.0520	.3170	.1720
165.000		.4610	.0700
180.000	.0760		

MACH (2) = 2.000

BETAT (4) = 3.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6450	1.5810	.7880	.3730	.0780	.0200	-.0280	-.0210	-.0090	.0140	.2060	.1180	.0560	.0120	.0510
30.000			.6960	.2980	.0320	-.0260	-.0660	-.0580	-.0110	.1060	-.0050	.0220	.0140	-.0040	-.0090
60.000			.5930	.2210	-.0190	-.0530	-.1030	-.0970	-.0330	.3170	.0600	-.0240	-.0020	.0110	.0440
90.000		1.3680	.5150	.1550	-.0620	-.0890	-.1330	-.1240	.2370	.1670	-.2010	-.1970	-.0760	.0550	-.0190
120.000			.4640	.1230	-.0840	-.1070	-.1460	-.1350	.0320	.1510	-.1890	-.0740	-.0490	.0370	-.0260
135.000								-.1430		.0140		.0050		-.0560	
150.000			.4550	.1090	-.0900	-.1120	-.1530	-.1440	.0590	.0970	.2140	.0840	-.0160	-.0960	-.0630
165.000				.1100	-.0870	-.1130	-.1520	-.1440	.0320	.0800	.2630		.0080		-.1540
180.000	1.6450	1.3340	.4820	.1190	-.0830	-.1070	-.1480	-.1400	-.1080	.0810	.2650	.1640	.0430	-.0390	-.0930
270.000		1.5430													

X/LT .7449 .8526 .9290

PHI

.000	.0150	.0230	.0210
30.000	.0060	.0160	.0010
60.000	-.0070	-.0070	.0330
90.000			.0320
120.000	-.0030	.0500	.0550
135.000	.0290	.0240	.0010
150.000	.0530	-.0310	-.0750
165.000		-.0130	-.0970
180.000	.0780		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(R00T03)

MACH (2) = 2.000

BETAT (5) = 6.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6300	1.5610	.7790	.3720	.0840	.0230	-.0260	-.0210	-.0110	.0020	.1380	.0910	.0290	.0120	.0530
30.000			.6580	.2740	.0180	-.0370	-.0760	-.0670	-.0270	.1390	.0220	.0510	.0280	-.0070	-.0100
60.000			.5460	.1870	-.0390	-.0720	-.1200	-.1120	-.0450	.1220	.0820	-.0100	.0070	.0200	.0210
90.000		1.3170	.4680	.1270	-.0790	-.1070	-.1440	-.1380	.1850	.1710	-.1970	-.1900	-.0560	.0290	-.0530
120.000			.4270	.1030	-.0910	-.1150	-.1530	-.1440	.0230	.1240	-.1850	.0140	-.0620	.0270	-.0540
135.000								-.1450		.0230		-.0070		-.0560	
150.000			.4270	.1020	-.0900	-.1140	-.1530	-.1440	-.0110	.1060	.2090	.0500	-.0440	-.1140	-.0850
165.000				.1030	-.0860	-.1120	-.1510	-.1420	-.0900	.1230	.2320		-.0110		-.1580
180.000	1.6300	1.3220	.4710	.1210	-.0840	-.1100	-.1470	-.1330	-.0910	.0830	.2770	.1060	.0140	-.0380	-.0710
270.000		1.5700													

X/LT .7449 .8526 .9290

PHI

.000	.0070	.0110	-.0020
30.000	-.0090	-.0020	-.0130
60.000	-.0250	-.0100	.0260
90.000			.0120
120.000	-.0170	.0280	.0250
135.000	.0000	-.0100	-.0480
150.000	.0050	-.0820	-.0220
165.000		-.0920	-.1120
180.000	-.0730		

MACH (2) = 2.000

BETAT (6) = 8.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6200	1.5570	.7690	.3740	.0830	.0230	-.0300	-.0240	-.0180	-.0060	.0460	.0710	.0260	-.0120	.0560
30.000			.6310	.2510	-.0010	-.0540	-.0930	-.0910	-.0530	.1450	.0780	.0490	.0060	-.0200	-.0090
60.000			.5040	.1510	-.0660	-.0960	-.1400	-.1160	-.0540	-.0020	.0990	.0200	.0130	.0180	-.0140
90.000		1.2730	.4300	.0920	-.0990	-.1260	-.1620	-.1520	.1350	.1700	-.1890	-.1800	.0570	.0000	-.1070
120.000			.4020	.0750	-.1070	-.1300	-.1670	-.1570	.0260	.1140	-.1410	-.0490	.0130	-.0080	-.1070
135.000								-.1570		.0080		-.0190		-.0500	
150.000			.4100	.0890	-.1060	-.1300	-.1650	-.1500	-.0420	.1040	.2090	.0070	-.0810	-.1410	-.0930
165.000				.0980	-.0960	-.1230	-.1590	-.1300	-.0610	.0740	.1900		-.0610		-.1630
180.000	1.6200	1.3160	.4590	.1200	-.0810	-.1100	-.1490	-.1280	-.0840	.0590	.2530	-.0350	-.0240	-.1000	-.0650
270.000		1.6010													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1081

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBOT03)

MACH (2) = 2.000

BETAT (6) = 8.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0090	-.0050	-.0230
30.000	-.0240	-.0250	-.0300
60.000	-.0340	-.0070	.0090
90.000			-.0120
120.000	-.0330	.0130	.0750
135.000	-.0480	-.0510	.0300
150.000	-.0360	-.1110	-.0840
165.000		-.0260	-.1050
180.000	-.0580		

AMES 97-707 IA902A + S3 + T9 EXTERNAL TANK

(RDOT04) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.090

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4880	1.4350	.7150	.2880	-.0180	-.0820	-.1410	-.1270	-.0980	.0130	.1170	-.0020	-.0540	-.0680	.0250
30.000			.8110	.3660	.0380	-.0350	-.1030	-.0820	-.0530	.1220	-.0200	-.0960	-.0300	.0120	.0240
60.000			.8520	.3940	.0650	.0020	-.0820	-.0610	.2560	.3010	-.1800	-.1190	-.0190	.0440	.0630
90.000	1.4950		.8210	.3660	.0410	-.0200	-.1000	-.0920	.5540	-.0540	-.3110	-.1360	.0120	.0900	.0740
120.000			.7200	.2880	-.0200	-.0740	-.1460	-.1370	.1320	.0290	-.2390	-.1060	.0120	.1110	.0650
135.000								-.1690		.0250		.0590		.1250	
150.000			.6010	.1910	-.0910	-.1370	-.2010	-.1910	-.1470	.0640	.1920	.0390	-.0080	.0800	.0380
165.000				.1410	-.1230	-.1630	-.2200	-.2110	-.0210	.1720	.2170		-.0580		-.0480
180.000	1.4880	1.2520	.5040	.1080	-.1410	-.1800	-.2380	-.2270	.0700	.1410	.1250	.0410	-.1140	-.1470	-.1580
270.000		1.1840													

X/LT .7449 .8526 .9290

PHI

.000	-.0450	.0270	.0680
30.000	.0010	-.0050	.0540
60.000	.0240	.0630	.0280
90.000		-.1400	
120.000	.0640	.3570	.2740
135.000	.0500	.4110	.2630
150.000	.0280	.4040	.2830
165.000		.4900	.2440
180.000	-.0640		

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5150	1.4550	.7250	.2910	-.0160	-.0820	-.1460	-.1320	-.0980	.0340	.1520	.0130	-.0520	-.0760	.0430
30.000			.7870	.3440	.0220	-.0500	-.1190	-.0960	-.0630	.1240	.0030	-.0580	-.0410	.0050	.0120
60.000			.8030	.3510	.0320	-.0280	-.1080	-.0960	.2260	.3090	-.1840	-.1410	-.0140	.0530	.0370
90.000	1.4740		.7640	.3170	.0030	-.0540	-.1340	-.1120	.5250	-.0610	-.3150	-.1500	.0070	.0890	.0540
120.000			.6800	.2530	-.0470	-.0960	-.1690	-.1530	.1110	.0310	-.2300	-.1580	.0140	.0920	.0310
135.000								-.1840		.0590		-.0030		.1070	
150.000			.5900	.1850	-.0980	-.1440	-.2040	-.2000	-.1530	.0810	.1850	.0050	-.0390	.0470	-.0040

(RBOT04)

BETAT (2) = -5.070

DEPENDENT VARIABLE CP

[illegible]

PHI			
.000	-.0280	-.0090	.0120
30.000	.0010	.0120	.0420
60.000	.0110	.0580	.0320
90.000			-.1580
120.000	.0270	.3150	.2330
135.000	.0490	.3560	.2220
150.000	.0670	.3490	.2320
165.000		.4290	.1870
180.000	-.0250		

BETAT (3) = -3.040

DEPENDENT VARIABLE CP

[illegible]

PMI			
.000	-.0050	.0150	.0310
30.000	-.0030	.0170	.0530
60.000	.0140	.0570	.0320
90.000			-.1280
120.000	.0410	.2710	.1810
135.000	.0470	.3140	.1540
150.000	.0400	.3140	.1210

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT04)

MACH (1) = 1.555

BETAT (3) = -3.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3150 .1120

180.000 -.0070

MACH (1) = 1.555

BETAT (4) = 5.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5250 1.4590 .7420 .3080 -.0030 -.0700 -.1310 -.1170 -.0960 .0270 .1470 .0260 -.0500 -.0780 .0190

30.000 .6490 .2000 -.0660 -.1250 -.1770 -.1650 -.1070 .1120 .0900 -.0130 -.0920 -.0670 -.0440

60.000 .5630 .1580 -.1130 -.1600 -.2170 -.1990 .1220 .4000 -.1010 -.1080 .0270 -.0050 -.0530

90.000 1.2520 .5080 .1040 -.1470 -.1800 -.2340 -.2220 .3870 -.0670 -.3330 -.0580 .0300 -.0360 -.0390

120.000 .4730 .0870 -.1580 -.1890 -.2370 -.2220 .0690 .1480 -.1700 -.1390 .0100 -.0210 -.0770

135.000 .4790 .1010 -.1510 -.1880 -.2410 -.2250 .0730 .1910 .1530 -.0360 -.1540 -.0600 -.0010

150.000 .1060 -.1450 -.1790 -.2360 -.2240 .0560 .2300 .0950 -.1360 .0230

165.000 1.5250 1.2830 .5190 .1220 -.1370 -.1720 -.2260 -.2080 -.0900 .2480 .1290 .0280 -.0770 -.1500 -.0440

180.000 1.4880

X/LT .7449 .8526 .9290

PHI

.000 -.0190 .0070 .0360

30.000 -.0220 .0200 .0810

60.000 .0030 .0230 .0800

90.000 .0340

120.000 -.0100 .1090 .0780

135.000 -.0300 .0690 .0320

150.000 -.0360 -.0750 .0440

165.000 -.0840 -.0940

180.000 -.0270

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1685

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOT04)

MACH (1) = 1.555

BETAT (5) = 7.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5050	1.4390	.7250	.3050	-.0090	-.0750	-.1350	-.1250	-.1030	.0170	.0950	.0010	-.0450	-.0590	.0170
30.000			.6050	.1970	-.0860	-.1460	-.1930	-.1840	-.1280	.1150	.0890	-.0150	-.0930	-.0660	-.0660
60.000			.5060	.1180	-.1390	-.1840	-.2410	-.2190	.0960	.3620	-.0580	-.0790	.0290	-.0370	-.0700
90.000		1.2020	.4520	.0730	-.1700	-.2070	-.2480	-.2390	.3550	-.0640	-.3060	.0060	.0040	-.1110	-.0490
120.000			.4290	.0590	-.1700	-.2080	-.2530	-.2340	.0420	.1760	-.1160	-.1290	-.0330	-.0410	-.0720
135.000								-.2370		.0710		-.0740		-.0290	
150.000			.4520	.0720	-.1670	-.2020	-.2500	-.2370	.0530	.2430	.1470	-.0670	-.1750	-.0830	-.0350
165.000				.0860	-.1550	-.1890	-.2410	-.2160	-.0190	.2000	.0790		-.1670		-.0470
180.000	1.5050	1.2720	.5070	.1130	-.1380	-.1760	-.2320	-.2090	-.0660	.2220	.1150	-.0120	-.1150	-.1580	-.1560
270.000		1.5080													

X/LT .7449 .8526 .9290

PHI

.000	-.0500	.0560	.0740
30.000	.0160	.0660	.0500
60.000	.0800	.0510	.0490
90.000		.0030	
120.000	.0350	.0590	-.0090
135.000	.0330	-.0080	-.0030
150.000	.0590	-.0900	-.0400
165.000		-.0950	-.1420
180.000	-.0790		

MACH (1) = 1.555

BETAT (6) = 9.100

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4750	1.4080	.6940	.2880	-.0190	-.0850	-.1460	-.1290	-.1090	.0010	.0480	-.0300	-.0500	-.0600	.0120
30.000			.5580	.1630	-.1090	-.1670	-.2130	-.2030	-.1520	.1160	.0840	-.0370	-.0990	-.0320	.0070
60.000			.4550	.0730	-.1650	-.2000	-.2530	-.2160	.0110	.2800	-.0140	-.0590	.0080	.0120	-.0050
90.000		1.1310	.4060	.0350	-.1800	-.2150	-.2670	-.2480	.3390	-.0590	-.2860	.0440	-.0040	-.0610	.0360
120.000			.3900	.0280	-.1890	-.2160	-.2600	-.2440	.0230	.2040	-.0720	-.1090	.0090	.0330	-.0240
135.000								-.2410		.0380		-.0910		.0280	
150.000			.4210	.0540	-.1840	-.2160	-.2540	-.2270	.0190	.2300	.1270	-.0910	-.2010	-.0360	-.0040
165.000				.0780	-.1690	-.2040	-.2490	-.2200	-.0110	.1950	.0200		-.2120		.0240
180.000	1.4750	1.2480	.4930	.1110	-.1520	-.1880	-.2380	-.2130	-.0890	.2450	.0900	-.0860	-.1750	-.1520	-.0900
270.000		1.5240													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBD004)

MACH (1) = 1.555

DETAT (6) = 9.100

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0040	.0170	.0250
30.000	.0170	.0150	-.0030
60.000	.0060	-.0030	-.0030
90.000			-.0310
120.000	-.0310	-.0300	.0170
135.000	-.0550	-.0990	-.0370
150.000	-.0230	-.1800	-.1100
165.000		-.1630	-.1560
180.000	-.0600		

MACH (2) = 2.000

DETAT (1) = -8.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6210	1.5290	.7180	.3170	.0430	-.0190	-.0610	-.0610	-.0500	-.0430	.1030	.0310	.0010	-.0300	.0160
30.000			.8260	.3940	.1010	.0340	-.0180	-.0100	.0010	.1670	.0890	-.0300	-.0360	-.0020	.0280
60.000			.8750	.4350	.1250	.0760	.0040	.0130	.0500	.4430	-.0440	-.0710	-.0350	.0100	.0740
90.000		1.6060	.8410	.4140	.1060	.0600	-.0050	-.0040	.3660	.2130	-.2310	-.2340	.0130	.1250	.1140
120.000			.7400	.3290	.0500	.0080	-.0500	-.0440	.0910	.1770	-.2030	-.1840	-.0070	.1810	.0750
135.000							-.0720		.0790	.0790		-.0800		.1400	
150.000			.6060	.2320	-.0190	-.0520	-.1030	-.1000	-.0870	.0110	.1420	.1060	.0550	.0300	.0760
165.000				.1790	-.0480	-.0770	-.1250	-.1190	-.0910	.1520	.3270		.0240		-.0010
180.000	1.6210	1.3510	.4940	.1400	-.0750	-.0960	-.1410	-.1230	-.0790	.0810	.2710	-.0180	-.0160	-.0950	-.0870
270.000		1.2760													

X/LT .7449 .8526 .9290

PHI

.000	-.0180	-.0200	-.0260
30.000	.0260	.0090	.0330
60.000	.0630	.0650	.0930
90.000			.0110
120.000	.1190	.2530	.3080
135.000	.1010	.3260	.2680
150.000	.0950	.2780	.2980
165.000		.6370	.1820
180.000	-.0460		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1887

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBOT04)

MACH (2) = 2.000

BETAT (2) = -6.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6310	1.5360	.7180	.3240	.0340	-.0210	-.0590	-.0560	-.0370	-.0230	.1410	.0460	.0100	-.0120	.0270
30.000			.7970	.3700	.0750	.0140	-.0300	-.0140	-.0010	.1680	.0920	-.0120	-.0180	-.0110	.0290
60.000			.8270	.3770	.0930	.0560	-.0130	-.0060	.0170	.4620	-.0360	-.0760	-.0300	-.0060	.0660
90.000		1.5690	.7890	.3560	.0760	.0390	-.0280	-.0220	.3420	.2140	-.2270	-.2370	-.0010	.1070	.1030
120.000			.6990	.2870	.0270	-.0050	-.0620	-.0560	.0620	.1810	-.2010	-.1610	-.0040	.1610	.0660
135.000								-.0780		.0750		-.0460		.1240	
150.000			.5960	.2080	-.0340	-.0550	-.1010	-.0970	-.0830	.0310	.2990	.0940	.0450	.0060	.0470
165.000			.1740	-.0580	-.0770	-.1210	-.1120	-.0790	.1600	.3060		.0430			-.0160
180.000	1.6310	1.3590	.5110	.1460	-.0740	-.0920	-.1350	-.1230	-.0830	.1060	.2840	.0810	.0060	-.0290	-.0770
270.000		1.3140													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0050	-.0010	-.0020
30.000	.0280	.0170	.0350
60.000	.0540	.0510	.0860
90.000			-.0090
120.000	.0890	.2180	.2540
135.000	.0770	.2850	.2240
150.000	.0660	.2470	.2220
165.000		.5450	.1340
180.000	-.0650		

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6450	1.5410	.7300	.3280	.0420	-.0130	-.0560	-.0510	-.0320	-.0100	.1570	.0680	.0230	-.0060	.0270
30.000			.7600	.3530	.0710	.0090	-.0380	-.0250	-.0040	.1680	.0510	.0080	-.0020	-.0060	.0240
60.000			.7700	.3470	.0730	.0300	-.0300	-.0190	-.0010	.4650	-.0400	-.0800	-.0610	-.0090	.0640
90.000		1.3330	.7250	.3190	.0470	.0100	-.0450	-.0390	.3190	.2080	-.2290	-.2420	.0150	.1030	.0910
120.000			.6560	.2640	.0080	-.0250	-.0760	-.0640	.0290	.1820	-.1990	-.1540	.0210	.1380	.0570
135.000								-.0810		.0540		.0180		.0900	
150.000			.5830	.2030	-.0320	-.0600	-.1070	-.0980	-.0850	.0840	.3170	.0730	.0350	-.0010	.0290
165.000				.1750	-.0510	-.0740	-.1200	-.1090	-.0920	.1410	.3110		.0420		-.0360
180.000	1.6450	1.3750	.5270	.1530	-.0640	-.0830	-.1320	-.1200	-.0990	.1360	.2770	.1930	.0470	-.0280	-.1060
270.000		1.3110													

X/LT	.7449	.8526	.9290
PHI			

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(R00T04)

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0060	.0160	.0160
30.000	.0240	.0180	.0350
60.000	.0470	.0340	.0730
90.000			.0040
120.000	.0650	.1720	.2090
135.000	.0650	.2460	.1890
150.000	.0290	.2890	.1370
165.000		.4320	.0350
180.000	.0850		

MACH (2) = 2.000

BETAT (4) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6490	1.5380	.7310	.3280	.0430	-.0120	-.0530	-.0480	-.0320	-.0070	.1760	.1020	.0350	-.0060	.0250
30.000			.6530	.2580	.0050	-.0490	-.0830	-.0770	-.0310	.0720	-.0250	.0110	.0050	-.0330	-.0220
60.000			.5740	.2000	-.0330	-.0620	-.1100	-.1030	-.0500	.2990	.0130	-.0640	-.0430	.0310	.0340
90.000		1.3730	.5180	.1600	-.0610	-.0850	-.1290	-.1210	.2310	.1850	-.2230	-.2270	.0890	.0960	.0160
120.000			.4840	.1350	-.0740	-.0970	-.1590	-.1290	.0070	.2050	-.1520	-.0090	.0610	.0570	-.0300
135.000							-.1330			-.0050		.0130		.0080	
150.000			.4920	.1390	-.0750	-.0990	-.1400	-.1320	.0380	.1240	.2540	.1290	-.0200	-.1010	-.0590
165.000				.1440	-.0720	-.0930	-.1370	-.1310	-.0830	.1040	.2710		.0200		-.1520
180.000	1.6490	1.3820	.5230	.1510	-.0630	-.0890	-.1330	-.1260	-.1030	.1030	.2650	.1900	.0550	-.0280	-.1010
270.000		1.5440													

X/LT .7449 .8526 .9290

PHI

.000	.0040	.0080	-.0010
30.000	-.0040	.0020	.0020
60.000	-.0190	-.0080	.0340
90.000			.0260
120.000	-.0280	.0370	.0400
135.000	.0110	.0120	-.0130
150.000	.0350	-.0430	-.0970
165.000		-.0260	-.1200
180.000	.0650		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1669

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBOT04)

MACH (2) = 2.000

BETAT (5) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6290	1.5210	.7190	.3280	.0530	-.0020	-.0510	-.0470	-.0350	-.0260	.0940	.0760	.0190	-.0060	.0190
30.000			.6140	.2460	.0010	-.0500	-.0910	-.0880	-.0580	.1110	-.0010	.0270	.0060	-.0320	-.0220
60.000			.5230	.1800	-.0400	-.0760	-.1250	-.1180	-.0830	.2140	.0260	-.0550	-.0320	.0370	.0040
90.000	1.3140		.4760	.1350	-.0680	-.1020	-.1420	-.1340	.2210	.1980	-.2190	-.2160	.0880	.0730	-.0240
120.000			.4500	.1190	-.0740	-.1050	-.1450	-.1360	.0110	.1860	-.1320	-.0790	.0360	.0250	-.0660
135.000								-.1360		-.0150		-.0080		-.0100	
150.000			.4650	.1280	-.0690	-.1010	-.1420	-.1330	-.0950	.1410	.2240	.0800	-.0320	-.1150	-.0740
165.000				.1370	-.0660	-.0970	-.1380	-.1310	-.0800	.1280	.2230		.0010		-.1620
180.000	1.6290	1.3620	.5180	.1620	-.0590	-.0910	-.1330	-.1160	-.0760	.1030	.2720	.1350	.0250	-.0240	-.0770
270.000		1.5690													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0100	-.0090	-.0220
30.000	-.0200	-.0160	-.0140
60.000	-.0410	-.0120	.0160
90.000			-.0030
120.000	-.0360	.0130	.0150
135.000	-.0120	-.0130	-.0490
150.000	-.0020	-.1080	-.0400
165.000		-.0990	-.1180
180.000	-.0710		

MACH (2) = 2.000

BETAT (6) = 8.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6310	1.5170	.7100	.3290	.0430	-.0120	-.0540	-.0510	-.0390	-.0330	.0350	.0440	-.0010	-.0310	.0130
30.000			.5830	.2110	-.0270	-.0790	-.1070	-.1040	-.0710	.1220	.0570	.0440	-.0110	-.0470	-.0200
60.000			.4880	.1340	-.0780	-.1020	-.1440	-.1390	-.0710	.1050	.0550	-.0320	-.0240	.0410	-.0240
90.000	1.2770		.4470	.0930	-.1020	-.1190	-.1570	-.1480	.1760	.1970	-.2160	-.1850	.0980	.0440	-.0920
120.000			.4260	.0820	-.1050	-.1220	-.1580	-.1500	.0420	.1470	-.0690	-.0710	.0230	-.0140	-.0990
135.000								-.1500		-.0210		-.0160		-.0320	
150.000			.4420	.1060	-.0940	-.1150	-.1550	-.1340	-.0420	.1110	.2100	.0570	-.0680	-.1270	-.0950
165.000				.1220	-.0820	-.1040	-.1440	-.1180	-.0570	.1030	.2040		-.0510		-.1680
180.000	1.6310	1.3660	.5040	.1480	-.0640	-.0890	-.1320	-.1140	-.0720	.0700	.2710	.0130	-.0180	-.0690	-.0740
270.000		1.6120													

X/LT	.7449	.8526	.9290
PHI			

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RB0104)

MACH (2) = 2.000

BETAT (6) = 8.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0270	-.0280	-.0480
30.000	-.0330	-.0330	-.0340
60.000	-.0530	-.0120	.0040
90.000			-.0250
120.000	-.0540	.0040	.0400
135.000	-.0530	-.0560	.0080
150.000	-.0370	-.1410	-.0930
165.000		-.1210	-.1120
180.000	-.0520		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1891

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOT03) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.100

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5030	1.4050	.6620	.2440	-.0560	-.1210	-.1660	-.1510	-.1240	.0280	.1070	-.0320	-.0870	-.0950	.0050
30.000			.7590	.3130	-.0050	-.0720	-.1330	-.1070	-.0830	.0750	-.0750	-.1300	-.0540	.0010	-.0080
60.000			.8210	.3630	.0380	-.0190	-.0980	-.0790	.2260	.2400	-.2360	-.1730	-.0120	.0460	.0220
90.000		1.5080	.8260	.3640	.0380	-.0170	-.1000	-.0920	.5550	-.0660	-.2800	-.0810	.0210	.0400	-.0310
120.000			.7580	.3140	-.0060	-.0530	-.1260	-.1200	.1530	.0970	-.3470	-.0360	.0590	.0730	.0250
135.000								-.1450		.0930		.0490		.0930	
150.000			.6520	.2330	-.0660	-.1100	-.1760	-.1710	-.1330	.0850	.2150	-.0170	.0140	.1020	.0400
165.000				.1810	-.0980	-.1360	-.2000	-.1910	-.1570	.2340	.2310		-.0640		-.0470
180.000	1.5030	1.3060	.5530	.1420	-.1240	-.1600	-.2170	-.2090	.0660	.1790	.1150	.0100	-.1210	-.1000	-.1550
270.000		1.1950													

X/LT .7449 .8526 .9290

PHI

.000	-.0580	.0420	.0480
30.000	-.0210	-.0240	.0490
60.000	.0050	.0220	.0200
90.000			-.1100
120.000	.0470	.3990	.2850
135.000	.0300	.4030	.2690
150.000	.0070	.3690	.2780
165.000		.4930	.2380
180.000	-.0900		

MACH (1) = 1.555

BETAT (2) = -5.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5200	1.4190	.6710	.2450	-.0550	-.1150	-.1710	-.1560	-.1210	.0740	.1420	-.0020	-.0810	-.1070	.0310
30.000			.7370	.3010	-.0170	-.0830	-.1460	-.1200	-.0860	.0700	-.0350	-.0890	-.0730	.0050	-.0130
60.000			.7770	.3230	.0070	-.0470	-.1220	-.1090	.1990	.2520	-.2280	-.1840	.0020	.0450	.0080
90.000		1.4840	.7750	.3170	.0010	-.0500	-.1310	-.1230	.5230	-.0590	-.2770	-.0950	.0160	.0340	-.0190
120.000			.7150	.2750	-.0330	-.0800	-.1500	-.1430	.1350	.1090	-.3270	-.0190	.0710	.0590	-.0050
135.000								-.1620		.1250		-.0050		.0840	
150.000			.6390	.2210	-.0730	-.1190	-.1830	-.1740	-.1360	.1300	.2180	-.0350	-.0120	.0690	.0020

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOYOS)

MACH (1) = 1.555

$$\text{BETAT} (2) = -5.070$$

SECTION (1) EXTERNAL TANK

DEFENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2674	.3412	.3950	.4489	.5027	.5565	.6372
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FBI

[illegible]

X/LT	.7449	.8526	.9297
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PHI

.000	-.0310	-.0120	.0070
30.000	-.0130	-.0060	.0180
60.000	-.0060	.0190	.0200
90.000			-.1350
120.000	-.0060	.3310	.2380
135.000	.0380	.3400	.2090
150.000	.0410	.3190	.2230
165.000		.3980	.2010
180.000	-.0580		

MACH (1) = 1.555

BETAT (3) = -3.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
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PHI

[illegible]

X/LT	.7449	.8526	.9290
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PHI

.000	-.0150	.0070	.0160
30.000	-.0050	.0060	.0210
60.000	-.0090	.0200	.0170
90.000			-.0050
120.000	-.0020	.2470	.1550
135.000	.0160	.2700	.1390
150.000	.0030	.2650	.1520

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1893

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBOT05)

MACH (1) = 1.555

BETAT (3) = -3.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2590 .1340

180.000 -.0240

MACH (1) = 1.555

BETAT (4) = 5.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5280 1.4210 .6880 .2660 -.0400 -.1050 -.1590 -.1410 -.1150 .0160 .1300 -.0030 -.0760 -.1090 .0190

30.000 .6090 .2000 -.0900 -.1480 -.2000 -.1810 -.1440 .1540 -.0150 -.0790 -.1290 -.0800 -.0470

60.000 .5450 .1460 -.1270 -.1670 -.2220 -.2020 .0980 .3500 -.1490 -.1540 .0330 -.0150 -.0480

90.000 1.2600 .5170 .1120 -.1460 -.1800 -.2330 -.2120 .3770 -.0560 -.4370 .0550 .0440 -.0170 -.0480

120.000 .4960 .1060 -.1470 -.1820 -.2290 -.2070 .0930 .2250 -.1060 -.1150 -.0050 -.0110 -.0830

135.000 .2090 .0480 -.0960 -.0330

150.000 .5190 .1280 -.1340 -.1730 -.2270 -.2080 .0930 .2220 .1590 -.0400 -.1550 -.0810 -.0200

165.000 .1400 -.1260 -.1620 -.2190 -.2050 .0560 .2490 .0930 -.1400 -.0070

180.000 1.5280 1.3340 .5670 .1600 -.1100 -.1500 -.2080 -.1860 -.1000 .2710 .1230 .0210 -.0940 -.1350 -.0010

270.000 1.4880

X/LT .7449 .8526 .9290

PHI

.000 -.0240 -.0070 .0220

30.000 -.0130 .0110 .0560

60.000 .0200 .0410 .0580

90.000 .0170

120.000 -.0360 .0660 .0680

135.000 -.0560 .0360 .0000

150.000 -.0750 -.1190 -.0760

165.000 -.1050 -.1020

180.000 -.0600

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBD05)

MACH (1) = 1.555

BETAT (5) = 7.070

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5070	1.3980	.6720	.2580	-.0450	-.1090	-.1650	-.1500	-.1290	-.0910	.0830	-.0220	-.0760	-.0850	-.0010
30.000			.5690	.1670	-.1070	-.1660	-.2120	-.1960	-.1400	.1060	.0290	-.0510	-.1270	-.0870	-.0640
60.000			.4920	.1040	-.1520	-.1880	-.2420	-.2210	.0880	.3600	-.1130	-.1300	.0290	-.0500	-.0430
90.000		1.2100	.4590	.0780	-.1690	-.2030	-.2530	-.2300	.3520	-.0500	-.4270	.0950	.0230	-.0640	-.0420
120.000			.4500	.0740	-.1670	-.1910	-.2470	-.2300	.0600	.2580	-.0520	-.0150	-.0490	-.0530	-.0820
135.000								-.2330		.0470		-.1050		-.0610	
150.000			.4850	.0960	-.1460	-.1850	-.2420	-.2250	.0590	.2740	.1290	-.0790	-.1680	-.0860	-.0600
165.000				.1150	-.1290	-.1680	-.2260	-.2060	-.0350	.2260	.0580		-.1790		-.0710
180.000	1.5070	1.3160	.5560	.1460	-.1150	-.1510	-.2070	-.1970	-.0960	.2790	.1090	-.0340	-.1350	-.1190	-.1420
270.000		1.5110													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0590	.0500	.0530
30.000	.0380	.0540	.0310
60.000	.0840	.0380	.0210
90.000			-.0270
120.000	-.0090	.0350	-.0180
135.000	-.0250	-.0270	-.0420
150.000	-.0090	-.1220	-.0500
165.000		-.1040	-.1830
180.000	-.1070		

MACH (1) = 1.555

BETAT (6) = 9.090

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4850	1.3700	.6430	.2460	-.0540	-.1190	-.1730	-.1570	-.1340	-.0170	.0460	-.0520	-.0810	-.0820	-.0010
30.000			.5250	.1320	-.1300	-.1860	-.2260	-.2150	-.1790	.0960	.0260	-.0660	-.1240	-.0390	.0060
60.000			.4410	.0660	-.1700	-.2040	-.2550	-.2380	.0850	.3390	-.0770	-.1110	.0140	.0140	.0160
90.000		1.1420	.4140	.0410	-.1820	-.2110	-.2600	-.2460	.3470	-.0380	-.3970	.1020	.0040	-.0080	.0290
120.000			.4080	.0380	-.1820	-.2100	-.2560	-.2430	.0420	.2780	-.0160	.0310	-.0080	.0150	-.0420
135.000								-.2360		.0470		-.1180		.0150	
150.000			.4550	.0670	-.1730	-.2020	-.2500	-.2170	.0240	.2490	.1020	-.1030	-.2020	-.0390	-.0290
165.000				.0970	-.1540	-.1860	-.2400	-.2100	-.0230	.2270	-.0020		-.2260		-.0020
180.000	1.4850	1.2930	.5430	.1360	-.1290	-.1680	-.2200	-.2060	-.1200	.3320	.0900	-.0880	-.2030	-.1400	-.1230
270.000		1.5310													
X/LT	.7449	.8526	.9290												

PHI

(RBOT05)

BETAT (6) = 9.090

DEPENDENT VARIABLE CP

PHI			
.000	-.0010	.0010	.0040
30.000	.0160	.0110	-.0170
60.000	.0190	-.0200	-.0240
90.000			-.0560
120.000	-.0440	-.0470	-.0130
135.000	-.0880	-.0950	-.0550
150.000	-.0600	-.1570	-.1320
165.000		-.1820	-.1690
180.000	-.0810		

BETAT (1) = -8.280

DEPENDENT VARIABLE CP

[illegible]

PHI			
.000	-.0260	-.0420	-.0410
30.000	.0060	-.0130	-.0020
60.000	.0430	.0270	.0420
90.000			.0030
120.000	.0950	.2280	.2880
135.000	.0950	.3060	.2180
150.000	.0910	.2740	.2180
165.000		.5850	.1360
180.000	-.0470		

AMES 97-757 IA9 02A + S3 + T9 EXTERNAL TANK

(RBO05)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6370	1.4980	.6620	.2770	.0100	-.0420	-.0830	-.0780	-.0580	-.0480	.1210	.0370	-.0120	-.0390	-.0030
30.000			.7450	.3300	.0530	-.0060	-.0550	-.0430	-.0270	.1330	.0540	-.0520	-.0560	-.0340	.0150
60.000			.7950	.3620	.0780	.0350	-.0260	-.0200	.0250	.3870	-.0840	-.1130	-.0850	.0160	.0500
90.000		1.5760	.7910	.3550	.0790	.0400	-.0290	-.0240	.3340	.2140	-.2440	-.2540	.0680	.1200	.0420
120.000			.7360	.3140	.0460	.0110	-.0500	-.0430	.0420	.2530	-.1630	-.1240	.0330	.1640	.0770
135.000								-.0620		.1140		.0200		.1190	
150.000			.6480	.2510	-.0010	-.0360	-.0850	-.0790	-.0620	.0980	.3930	.1130	.0600	-.0010	.0490
165.000				.2120	-.0220	-.0560	-.1060	-.0960	-.0530	.0910	.3390		.0510		-.0150
180.000	1.6370	1.4030	.5600	.1840	-.0430	-.0720	-.1210	-.1110	-.0670	.1130	.2890	.1160	.0120	-.0150	-.0800
270.000		1.3180													

X/LT .7449 .8526 .9290

PHI

.000	-.0160	-.0220	-.0180
30.000	.0010	-.0040	.0030
60.000	.0280	.0170	.0290
90.000			-.0050
120.000	.0670	.1610	.2610
135.000	.0670	.2520	.1780
150.000	.0410	.2230	.1730
165.000		.4870	.0880
180.000	-.0740		

MACH (2) = 2.000

BETAT (3) = -4.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6540	1.5070	.6700	.2820	.0160	-.0370	-.0830	-.0750	-.0570	-.0390	.1550	.0620	-.0020	-.0310	-.0040
30.000			.7170	.3160	.0460	-.0110	-.0610	-.0510	-.0280	.1300	.0270	-.0360	-.0310	-.0350	.0140
60.000			.7420	.3270	.0580	.0140	-.0460	-.0360	-.0060	.3860	-.0860	-.1250	-.0990	.0200	.0440
90.000		1.5410	.7270	.3190	.0490	.0080	-.0490	-.0390	.3150	.2070	-.2470	-.2630	.0610	.1010	.0290
120.000			.6830	.2860	.0270	-.0150	-.0680	-.0560	.0140	.2400	-.1640	-.1240	-.0230	.1430	.0540
135.000								-.0710		.0660		.0340		.0740	
150.000			.6230	.2460	-.0040	-.0400	-.0910	-.0870	-.0650	.1020	.3500	.0850	.0410	.0040	.0280
165.000				.2160	-.0200	-.0530	-.1050	-.0980	-.0790	.1330	.3590		.0400		-.0420
180.000	1.6540	1.4200	.5700	.1900	-.0340	-.0660	-.1160	-.1090	-.0870	.1520	.2810	.2050	.0490	-.0200	-.1040
270.000		1.3770													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1897

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOT05)

MACH (2) = 2.000

BETAT (3) = -4.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0070	-.0010	.0040
30.000	.0010	.0020	.0140
60.000	.0240	.0130	.0240
90.000			.0030
120.000	.0140	.1280	.2210
135.000	.0380	.2160	.1360
150.000	.0150	.2560	.1090
165.000		.3960	.0270
180.000	.0330		

MACH (2) = 2.000

BETAT (4) = 3.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.6580	1.5030	.6730	.2830	.0170	-.0350	-.0780	-.0720	-.0540	-.0290	.1690	.0870	.0120	-.0230	-.0100
30.000			.6110	.2260	-.0150	-.0660	-.1020	-.0930	-.0760	.1240	-.0700	.0050	.0030	-.0450	-.0480
60.000			.5570	.1800	-.0440	-.0750	-.1210	-.1100	-.0520	.2430	-.0310	-.0990	-.0760	.0440	.0170
90.000		1.3760	.5260	.1590	-.0560	-.0860	-.1310	-.1200	.2150	.1950	-.2340	-.1620	.0760	.0760	.0080
120.000			.5100	.1540	-.0610	-.0890	-.1350	-.1250	.0220	.2280	-.0950	-.0550	.0440	.0460	-.0320
135.000								-.1260		-.0080		.0110		.0090	
150.000			.5260	.1690	-.0540	-.0860	-.1310	-.1200	-.0980	.1450	.2700	.1250	.0080	-.0850	-.0530
165.000				.1780	-.0510	-.0780	-.1240	-.1160	-.0960	.1320	.2470		.0410		-.1330
180.000	1.6580	1.4260	.5730	.1930	-.0390	-.0700	-.1180	-.1090	-.0880	.1500	.2650	.2110	.0710	-.0120	-.1030
270.000		1.5440													

X/LT .7449 .8526 .9290

PHI

.000	-.0090	-.0030	-.0090
30.000	-.0180	-.0020	.0000
60.000	-.0190	-.0090	.0270
90.000			.0130
120.000	-.0570	.0320	.0390
135.000	-.0170	.0010	-.0290
150.000	.0180	-.0600	-.1040
165.000		-.0160	-.1210
180.000	.0710		

AMES 97-707 1A9 CCA + S3 + T9 EXTERNAL TANK

(R80T05)

MACH (2) = 2.000

DETAT (5) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6380	1.4820	.6710	.2840	.0160	-.0370	-.0780	-.0720	-.0590	-.0460	.0940	.0570	-.0070	-.0280	-.0030
30.000			.5800	.2040	-.0280	-.0750	-.1070	-.1030	-.0860	.1060	-.0060	-.0030	-.0280	-.0600	-.0320
60.000			.5040	.1540	-.0620	-.0880	-.1310	-.1220	-.0380	.1600	-.0080	-.0920	-.0660	.0420	-.0100
90.000		1.3190	.4710	.1280	-.0740	-.0970	-.1400	-.1330	.1910	.2110	-.2320	-.1000	.0700	.0590	-.0130
120.000			.4670	.1220	-.0760	-.0990	-.1400	-.1320	.0320	.1750	-.0580	-.0630	.0600	.0150	-.0590
135.000								-.1300		-.0120		-.0050		-.0050	
150.000			.4970	.1430	-.0660	-.0900	-.1350	-.1250	-.0880	.1520	.2180	.0930	-.0220	-.1000	-.0630
165.000				.1590	-.0600	-.0850	-.1280	-.1200	-.0800	.1350	.2250		.0010		-.1540
180.000	1.6380	1.4070	.5610	.1880	-.0450	-.0750	-.1200	-.1100	-.0730	.1200	.2740	.1420	.0260	-.0050	-.0650
270.000		1.5730													

X/LT .7449 .8526 .9290

PHI

.000	-.0170	-.0270	-.0320
30.000	-.0220	-.0160	-.0150
60.000	-.0390	-.0110	.0080
90.000			-.0110
120.000	-.0510	.0060	-.0060
135.000	-.0320	-.0240	-.0500
150.000	-.0130	-.1280	-.0560
165.000		-.1150	-.1270
180.000	-.0700		

MACH (2) = 2.000

DETAT (6) = 8.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6320	1.4780	.6570	.2770	.0170	-.0370	-.0780	-.0720	-.0610	-.0520	.0710	.0150	-.0220	-.0520	-.0110
30.000			.5440	.1900	-.0440	-.0930	-.1220	-.1180	-.0850	.1100	.0150	.0080	-.0210	-.0740	-.0290
60.000			.4680	.1250	-.0840	-.1090	-.1490	-.1430	-.0080	.1040	.0030	-.0680	-.0600	.0380	-.0390
90.000		1.2780	.4400	.0960	-.0960	-.1180	-.1570	-.1460	.1630	.2140	-.2260	-.0570	.0860	.0370	-.0460
120.000			.4370	.0980	-.0970	-.1180	-.1550	-.1460	.0510	.1200	.0210	-.0490	.0520	-.0140	-.0890
135.000								-.1440		.0220		-.0060		-.0260	
150.000			.4650	.1280	-.0790	-.1040	-.1450	-.1230	-.0550	.1260	.1950	.0670	-.0610	-.1210	-.0970
165.000				.1510	-.0630	-.0890	-.1300	-.1110	-.0590	.1150	.2010		-.0530		-.1660
180.000	1.6320	1.4050	.5510	.1820	-.0410	-.0710	-.1160	-.1040	-.0630	.0940	.2780	.0520	-.0140	-.0520	-.0810
270.000		1.6120													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 CCA + S3 + T9 EXTERNAL TANK

(RBD006) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.100

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5030	1.3630	.6120	.2060	-.0830	-.1410	-.1920	-.1760	-.1430	.0770	.1000	-.0430	-.1120	-.1150	-.0070
30.000			.7120	.2770	-.0280	-.0980	-.1550	-.1330	-.1050	.0430	-.1160	-.1600	-.0920	-.0100	-.0280
60.000			.7910	.3440	.0190	-.0400	-.1190	-.0980	.1950	.1790	-.2810	-.2350	-.0070	.0220	.0090
90.000		1.5080	.8260	.3670	.0420	-.0180	-.0980	-.0850	.5760	-.0670	-.4680	-.0380	.0080	-.1240	-.1730
120.000			.7880	.3430	.0220	-.0380	-.1110	-.0980	.1920	.1680	-.2910	-.0700	.1700	.1540	.0450
135.000								-.1210		.1620		-.0200		.1670	
150.000			.7060	.2780	-.0300	-.0820	-.1510	-.1400	-.1100	.1460	.2390	.0120	-.0310	.0870	.0480
165.000				.2320	-.0600	-.1080	-.1760	-.1640	-.1310	.3010	.2420		-.0870		-.0370
180.000	1.5030	1.3480	.6050	.1900	-.0870	-.1350	-.1970	-.1820	-.1460	.2360	.1190	-.0050	-.1220	-.1200	-.1250
270.000		1.1960													

X/LT .7449 .8526 .9290

PHI

.000	-.0430	.0410	.0330
30.000	-.0260	-.0250	.0390
60.000	.0020	-.0110	.0040
90.000			-.1260
120.000	.0250	.3100	.2260
135.000	.0180	.3320	.2170
150.000	.0270	.3060	.1830
165.000		.4530	.2170
180.000	-.1220		

MACH (1) = 1.555

BETAT (2) = -5.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5290	1.3840	.6200	.2020	-.0800	-.1380	-.1940	-.1790	-.1440	.1060	.1220	-.0170	-.1080	-.1330	.0150
30.000			.6900	.2540	-.0440	-.1100	-.1720	-.1440	-.1100	.0300	-.0830	-.1260	-.1040	-.0060	-.0360
60.000			.7460	.3010	-.0100	-.0680	-.1440	-.1260	.1640	.1860	-.2810	-.2500	-.0020	.0250	-.0010
90.000		1.4910	.7690	.3180	.0050	-.0500	-.1340	-.1140	.5280	-.0640	-.4680	-.0560	-.0320	-.1230	-.1600
120.000			.7460	.3020	-.0080	-.0620	-.1380	-.1300	.1700	.1820	-.2600	-.1150	.1490	.1290	.0170
135.000								-.1420		.1860		-.0690		.1430	
150.000			.6960	.2630	-.0400	-.0950	-.1620	-.1520	-.1120	.2110	.2360	.0140	-.0500	.0690	.0000

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RB0T05)

MACH (2) = 2.000

DETAT (6) = 8.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7440 .8526 .9290

PHI

.000	-.0390	-.0540	-.0640
30.000	-.0400	-.0310	-.0310
60.000	-.0560	-.0160	-.0050
90.000			-.0290
120.000	-.0640	-.0230	.0350
135.000	-.0630	-.0690	-.0280
150.000	-.0550	-.1740	-.1120
165.000		-.1550	-.1240
180.000	-.0570		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RBD06)

MACH (1) = 1.555

BETAT (3) = -3.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2450 .0320

180.000 -.0370

MACH (1) = 1.555

BETAT (4) = 5.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5270 1.5720 .6340 .2230 -.0710 -.1280 -.1820 -.1680 -.1440 .0700 .1120 -.0260 -.1030 -.1310 .0080

30.000

.5680 .1660 -.1100 -.1660 -.2170 -.1950 -.1600 .0810 -.0720 -.0780 -.1580 -.1150 -.0530

60.000

.5240 .1280 -.1340 -.1750 -.2290 -.2080 .0710 .2720 -.2020 -.1920 .0180 -.0140 -.0380

90.000

.5190 .1100 -.1410 -.1790 -.2330 -.2170 .3650 -.0520 -.4420 -.0030 -.0400 -.0400 -.0980

120.000 1.2550 .5160 .1220 -.1360 -.1740 -.2240 -.2090 .1110 .2850 -.0270 -.1420 -.0110 -.0100 -.1030

135.000 .5610 .1600 -.1120 -.1560 -.2140 -.2020 .1040 .2220 .1400 -.0330 -.1480 -.0770 -.0260

150.000 .1770 -.0980 -.1390 -.2020 -.1950 .0220 .1850 .0750 -.1310 .0000

165.000 1.5270 1.3720 .6200 .2010 -.0790 -.1230 -.1870 -.1780 -.1140 .2600 .1010 .0040 -.0940 -.1350 -.0210

180.000 1.4890

X/LT .7449 .8526 .9290

PHI

.000 -.0170 -.0050 .0260

30.000

-.0110 .0210 .0490

60.000

.0180 .0560 .0540

90.000

.0320

120.000 -.0660 .1010 .0460

135.000 -.0920 .0230 -.0340

150.000 -.1220 -.1290 -.1170

165.000 -.0960 -.1540

180.000 -.1000

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBOT06)

MACH (1) = 1.535

BETAT (5) = 7.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5210	1.3660	.6330	.2100	-.0770	-.1390	-.1900	-.1700	-.1480	.0000	.0830	-.0450	-.1010	-.1000	-.0140
30.000			.5380	.1320	-.1280	-.1860	-.2250	-.2100	-.1520	.1060	.0230	-.0780	-.1410	-.1100	-.0480
60.000			.4800	.0890	-.1550	-.1930	-.2490	-.2230	.0600	.3020	-.1690	-.1060	.0130	-.0560	-.0410
90.000		1.2160	.4630	.0760	-.1640	-.2030	-.2510	-.2300	.3520	-.0460	-.4320	.0130	-.0450	-.0600	-.0900
120.000			.4650	.0870	-.1570	-.1950	-.2390	-.2230	.0740	.3430	.0150	-.0040	-.0560	-.0590	-.0830
135.000								-.2260		.0730		-.0900		-.0670	
150.000			.5230	.1290	-.1290	-.1680	-.2250	-.2160	-.0050	.3190	.1040	-.0750	-.1550	-.0960	-.0650
165.000				.1540	-.1060	-.1450	-.2060	-.1990	-.0800	.2950	.0300		-.1700		-.0660
180.000	1.5210	1.3690	.6110	.1900	-.0850	-.1230	-.1850	-.1750	-.1140	.4050	.0980	-.0420	-.1440	-.1240	-.0990
270.000		1.5190													

X/LT .7449 .8526 .9290

PHI

.000	-.0270	.0420	.0340
30.000	.0470	.0450	.0270
60.000	.0790	.0280	.0180
90.000			.0080
120.000	-.0430	.0360	-.0520
135.000	-.0560	-.0490	-.0990
150.000	-.0930	-.0800	-.0840
165.000		-.1340	-.2020
180.000	-.1420		

MACH (1) = 1.535

BETAT (6) = 9.090

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4910	1.3310	.6050	.1970	-.0840	-.1420	-.1990	-.1810	-.1610	.0140	.0580	-.0730	-.1120	-.0980	-.0040
30.000			.4900	.1010	-.1470	-.2020	-.2400	-.2240	-.1890	.0760	-.0370	-.1150	-.1490	-.0500	.0100
60.000			.4310	.0530	-.1710	-.2060	-.2580	-.2350	.0550	.2930	-.1390	-.0330	.0260	.0080	.0200
90.000		1.1430	.4190	.0420	-.1770	-.2140	-.2640	-.2390	.3420	-.0330	-.4150	.0360	-.0530	.0270	-.0190
120.000			.4260	.0530	-.1730	-.2040	-.2550	-.2400	.0660	.3350	.0330	.0060	-.0820	.0030	-.0550
135.000								-.2230		.0990		-.0990		-.0120	
150.000			.4900	.0980	-.1420	-.1890	-.2430	-.2070	.0140	.2780	.0680	-.1020	-.1870	-.0700	-.0070
165.000				.1360	-.1150	-.1660	-.2250	-.2040	-.0670	.3070	-.0010		-.2360		-.0180
180.000	1.4910	1.3480	.5920	.1810	-.0860	-.1370	-.2010	-.1860	-.1220	.4810	.0020	-.0890	-.2170	-.1570	-.1110
270.000		1.5360													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RDOT06)

MACH (1) = 1.555

BETAT (6) = 9.090

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0100	.0060	-.0030
30.000	.0160	-.0040	-.0220
60.000	.0400	-.0180	-.0310
90.000			-.0350
120.000	-.0820	-.0300	-.0780
135.000	-.1040	-.0630	-.1120
150.000	-.0990	-.1210	-.1530
165.000		-.2270	-.1880
180.000	-.1030		

MACH (2) = 2.000

BETAT (1) = -8.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI

.000	1.6340	1.4550	.6070	.2370	-.0240	-.0710	-.1070	-.1030	-.0890	-.0750	.0930	.0080	-.0440	-.0680	-.0220
30.000			.7160	.3040	.0400	-.0210	-.0660	-.0570	-.0440	.0770	-.0010	-.1050	-.1030	-.0460	-.0050
60.000			.8100	.3770	.0910	.0430	-.0260	-.0190	.0790	.3170	-.1350	-.1420	-.0880	.0330	.0180
90.000		1.6160	.8460	.4090	.1100	.0620	-.0080	.0020	.3650	.2010	-.2530	-.2220	.1000	.0620	-.0780
120.000			.8090	.3790	.0890	.0430	-.0220	-.0130	.0870	.3190	-.1310	-.0710	.0310	.2190	.1100
135.000								-.0330		.1460		.0630		.1200	
150.000			.7170	.3080	.0360	-.0040	-.0580	-.0560	-.0450	.1240	.4120	.1610	.0870	.0340	.0650
165.000				.2590	.0050	-.0290	-.0840	-.0760	-.0440	.0310	.3870		.0460		-.0060
180.000	1.6340	1.4420	.6040	.2130	-.0250	-.0550	-.1060	-.0980	-.0510	.0770	.2720	.0910	-.0190	-.0580	-.0940
270.000		1.2790													

X/LT .7449 .8526 .9290

PHI

.000	-.0430	-.0520	-.0410
30.000	-.0240	-.0330	-.0210
60.000	.0160	.0080	.0270
90.000			.0290
120.000	.0670	.2210	.2720
135.000	.1040	.2900	.1780
150.000	.0950	.2660	.1850
165.000		.5760	.1060
180.000	-.0480		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1905

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBO706)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6460	1.4590	.6100	.2390	-.0200	-.0690	-.1040	-.1010	-.0760	-.0650	.1110	.0360	-.0270	-.0570	-.0210
30.000			.6920	.2830	.0220	-.0340	-.0760	-.0650	-.0480	.0890	.0230	-.0880	-.0900	-.0510	.0000
60.000			.7640	.3340	.0580	.0170	-.0410	-.0360	.0390	.3250	-.1300	-.1510	-.1090	.0100	.0160
90.000		1.5810	.7940	.3550	.0740	.0380	-.0280	-.0240	.3380	.2010	-.2520	-.2330	.0730	.0300	-.0960
120.000			.7660	.3360	.0600	.0220	-.0360	-.0320	.0370	.3310	-.1250	-.0830	.0210	.1730	.0890
135.000							-.0440			.1190		.0710		.0690	
150.000			.6980	.2850	.0230	-.0120	-.0680	-.0580	-.0380	.1460	.4030	.1330	.0790	.0090	.0530
165.000				.2540	.0030	-.0320	-.0860	-.0790	-.0310	.1100	.3930		.0550		-.0010
180.000	1.6460	1.4530	.6120	.2240	-.0190	-.0490	-.1020	-.0940	-.0500	.1410	.2880	.1730	.0200	-.0120	-.0840
270.000		1.3270													

X/LT .7449 .8526 .9290

PHI

.000	-.0300	-.0260	-.0180
30.000	-.0230	-.0190	-.0120
60.000	.0090	.0000	.0310
90.000			.0550
120.000	.0350	.1490	.2490
135.000	.0660	.2280	.1270
150.000	.0570	.2280	.1340
165.000		.4700	.0560
180.000	-.0870		

MACH (2) = 2.000

BETAT (3) = -.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6660	1.4680	.6250	.2530	-.0080	-.0590	-.0950	-.0880	-.0660	-.0530	.1530	.0690	-.0040	-.0440	-.0520
30.000			.6280	.2310	-.0100	-.0630	-.1000	-.0920	-.0640	.0940	-.0500	.0260	-.0280	-.0630	-.0190
60.000			.6360	.2310	-.0110	-.0440	-.1000	-.0890	-.0560	.3160	-.1080	-.1560	-.1100	.0100	.0180
90.000		1.4680	.6360	.2340	-.0160	-.0460	-.0970	-.0870	.2620	.1940	-.2510	-.2300	.0100	-.0640	-.0670
120.000			.6340	.2340	-.0160	-.0480	-.1030	-.0910	-.0540	.3180	-.0920	-.0440	-.0810	.0960	.0180
135.000							-.0900			.0670		.0250		.0070	
150.000			.6350	.2390	-.0140	-.0470	-.1010	-.0880	-.0640	.2070	.2960	.0510	.0540	-.0180	-.0210
165.000				.2360	-.0110	-.0440	-.0980	-.0900	-.0650	.2050	.3070		.0790		-.0740
180.000	1.6660	1.4770	.6360	.2360	-.0130	-.0430	-.0980	-.0900	-.0650	.2070	.2510	.1270	.1210	.0150	-.0820
270.000		1.4620													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RBO706)

MACH (2) = 2.000

BETAT (3) = -.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0010	.0100	.0070
30.000	-.0090	-.0040	.0100
60.000	-.0010	-.0100	.0230
90.000			.0600
120.000	-.0410	.0470	.0980
135.000	-.0170	.1000	.0100
150.000	-.0020	.1390	-.0560
165.000		.1530	-.0940
180.000	.0170		

MACH (2) = 2.000

BETAT (4) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6680	1.4660	.6190	.2390	-.0110	-.0630	-.0990	-.0930	-.0760	-.0620	.1460	.0480	-.0300	-.0520	-.0290
30.000			.5650	.1900	-.0380	-.0870	-.1200	-.1120	-.0920	.0850	-.0920	-.0030	-.0160	-.0670	-.0620
60.000			.5300	.1610	-.0600	-.0880	-.1310	-.1220	-.0150	.2050	-.0800	-.1370	-.0570	.0220	-.0010
90.000		1.3820	.5260	.1520	-.0610	-.0900	-.1350	-.1260	.1980	.1980	-.2420	-.1350	.0060	-.0300	-.0630
120.000			.5310	.1560	-.0560	-.0840	-.1300	-.1230	-.0150	.1920	-.0360	-.0540	-.0190	.0370	-.0300
135.000								-.1200		.0070		.0140		.0110	
150.000			.5740	.1940	-.0380	-.0700	-.1190	-.1140	-.0940	.1660	.2250	.1310	.0080	-.0740	-.0560
165.000				.2110	-.0290	-.0610	-.1090	-.1040	-.0870	.1600	.2400		.0420		-.1230
180.000	1.6680	1.4740	.6340	.2280	-.0160	-.0490	-.1000	-.0950	-.0770	.1890	.2590	.1960	.0380	.0000	-.0910
270.000		1.5570													

X/LT .7449 .8526 .9290

PHI

.000	-.0280	-.0150	-.0150
30.000	-.0170	-.0080	-.0070
60.000	-.0230	-.0160	.0210
90.000			.0210
120.000	-.0740	.0130	.0230
135.000	-.0390	-.0200	-.0470
150.000	-.0170	-.0850	-.1400
165.000		-.0390	-.1490
180.000	-.0680		

TABLATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO706)

BETAT (5) = 5.987

DEPENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9290
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PHI			
.000	-.0380	-.0450	-.0390
30.000	-.0220	-.0220	-.0200
60.000	-.0370	-.0160	.0070
90.000			.0080
120.000	-.0870	-.0120	-.0290
135.000	-.0580	-.0540	-.0330
150.000	-.0460	-.1560	-.0770
165.000		-.1390	-.1390
180.000	-.0710		

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBOT07) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 DREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -7.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5040	1.3240	.5640	.1560	-.1140	-.1700	-.2150	-.1960	-.1650	.0970	.0920	-.0560	-.1360	-.1240	-.0300
30.000			.6600	.2270	-.0630	-.1270	-.1790	-.1610	-.1280	.0230	-.1630	-.1890	-.0820	-.0350	-.0550
60.000			.7620	.3070	-.0050	-.0590	-.1340	-.1130	.1640	.1080	-.3320	-.2600	-.0410	-.0160	-.0050
90.000		1.5090	.8280	.3620	.0370	-.0220	-.1010	-.0860	.5630	-.0810	-.4680	-.1290	-.1500	-.2180	-.2330
120.000			.8230	.3630	.0400	-.0180	-.0970	-.0840	.2400	.2270	-.2290	-.0440	.1890	.1970	.0340
135.000							-.0970			.2150		.0080		.1730	
150.000			.7580	.3170	-.0020	-.0540	-.1240	-.1140	-.0880	.2390	.2550	.0420	-.0160	.0880	.0540
165.000				.2770	-.0320	-.0790	-.1500	-.1380	-.1070	.3600	.2490		-.0760		-.0260
180.000	1.5040	1.3920	.6600	.2310	-.0640	-.1080	-.1730	-.1600	-.1190	.2810	.1090	-.0100	-.1210	-.0940	-.0370
270.000		1.1990													

X/LT .7449 .8526 .9290

PHI

.000	-.0150	.0430	.0230
30.000	-.0360	-.0170	.0310
60.000	-.0130	-.0430	.0080
90.000			-.1230
120.000	.0400	.2460	.1730
135.000	.0290	.2850	.1590
150.000	.0290	.2570	.1230
165.000		.4380	.1100
180.000	-.1450		

MACH (1) = 1.555

BETAT (2) = -5.090

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5260	1.3360	.5710	.1570	-.1100	-.1660	-.2120	-.1990	-.1590	.1180	.0970	-.0310	-.1280	-.1420	-.0010
30.000			.6390	.2140	-.0770	-.1380	-.1880	-.1680	-.1290	.0050	-.1300	-.1600	-.1050	-.0250	-.0530
60.000			.7160	.2750	-.0320	-.0840	-.1580	-.1360	.1410	.1150	-.3270	-.2800	-.0300	-.0030	-.0120
90.000		1.4860	.7710	.3170	.0040	-.0510	-.1340	-.1150	.5300	-.0780	-.4630	-.1080	-.1910	-.2280	-.1980
120.000			.7770	.3260	.0100	-.0450	-.1210	-.1150	.2040	.2480	-.1430	-.0840	.1510	.1660	.0250
135.000							-.1200			.2850		-.0390		.1450	
150.000			.7450	.3000	-.0100	-.0670	-.1390	-.1240	-.0880	.3140	.2510	.0430	-.0370	.0730	.0150

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1909

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOTD7)

MACH (1) = 1.555

BETAT (2) = -5.090

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.2730	-.0330	-.0830	-.1510	-.1390	-.1120	.3030	.2330		-.0500		-.0150
180.000	1.5260	1.4190	.6760	.2400	-.0520	-.1020	-.1690	-.1570	-.1020	.4080	.0910	.0280	-.0510	-.0780	.0090
270.000		1.2560													

X/LT .7449 .8526 .9290

PHI

.000	-.0170	-.0050	.0120
30.000	-.0210	-.0190	-.0010
60.000	-.0230	-.0250	-.0140
90.000			-.0870
120.000	-.0100	.1930	.1160
135.000	.0040	.2260	.1030
150.000	-.0150	.2190	.0650
165.000		.3700	.0490
180.000	-.1190		

MACH (1) = 1.555

BETAT (3) = -3.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5480	1.3540	.5800	.1670	-.1110	-.1690	-.2130	-.1900	-.1490	.1300	.1170	-.0280	-.1230	-.1580	.0090
30.000			.6220	.1960	-.0850	-.1420	-.1950	-.1710	-.1340	.0010	-.0730	-.1380	-.1220	-.0330	-.0450
60.000			.6750	.2410	-.0530	-.1040	-.1730	-.1520	.1190	.1250	-.3180	-.2760	-.0290	-.0070	-.0180
90.000		1.4600	.7140	.2720	-.0280	-.0810	-.1510	-.1370	.4960	-.0700	-.4580	-.1180	-.2290	-.2460	-.2130
120.000			.7270	.2850	-.0120	-.0670	-.1390	-.1280	.1730	.2590	-.0840	-.1170	.1100	.1310	-.0110
135.000								-.1290		.2430		-.0660		.0970	
150.000			.7210	.2790	-.0270	-.0750	-.1460	-.1320	-.0950	.3390	.2510	.0490	-.0150	.0390	-.0150
165.000				.2640	-.0420	-.0900	-.1510	-.1390	-.1050	.3360	.1970		-.0230		-.0080
180.000	1.5480	1.4370	.6890	.2430	-.0510	-.1010	-.1690	-.1490	-.1140	.2410	.1000	.0720	-.0380	-.0850	.0070
270.000		1.3230													

X/LT .7449 .8526 .9290

PHI

.000	-.0070	.0060	-.0020
30.000	-.0090	-.0010	.0010
60.000	-.0240	-.0100	.0030
90.000			-.0610
120.000	-.0470	.1490	.0740
135.000	-.0320	.1790	.0590
150.000	-.0390	.1990	.0210

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT07)

MACH (1) = 1.555

BETAT (3) = -3.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2360 -.0250

180.000 -.0670

MACH (1) = 1.555

BETAT (4) = 5.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5260	1.3290	.5820	.1780	-.0960	-.1580	-.2060	-.1860	-.1570	.1080	.1030	-.0390	-.1290	-.1480	.0020
30.000			.5290	.1390	-.1290	-.1830	-.2270	-.2050	-.1120	.0360	-.0490	-.0500	-.1540	-.1210	-.0450
60.000			.5070	.1140	-.1430	-.1810	-.2370	-.2050	.0480	.1940	-.2560	-.1500	-.0030	-.0070	-.0550
90.000	1.2600		.5140	.1210	-.1410	-.1770	-.2310	-.2110	.3680	-.0610	-.4330	-.1640	-.2730	-.0570	-.1810
120.000			.5380	.1460	-.1230	-.1650	-.2190	-.2010	.1270	.3220	.0480	.0540	.0000	-.0040	-.0770
135.000							-.1950			.1510		-.0370		-.0320	
150.000			.6000	.1950	-.0900	-.1330	-.1930	-.1820	.1010	.2700	.1130	-.0090	-.1030	-.0540	-.0520
165.000				.2180	-.0690	-.1100	-.1780	-.1680	-.0960	.2300	.0810		-.1020		-.0400
180.000	1.5260	1.4190	.6770	.2460	-.0450	-.0910	-.1620	-.1510	-.1130	.2640	.0950	.0280	-.0730	-.1000	.0120
270.000		1.4820													

X/LT .7449 .8526 .9290

PHI

.000	-.0080	-.0020	.0190
30.000	-.0120	.0040	.0470
60.000	.0090	.0440	.0530
90.000			.0120
120.000	-.0980	.0610	.0310
135.000	-.1150	-.0410	-.0120
150.000	-.1440	-.1880	-.0570
165.000		-.1610	-.1570
180.000	-.1260		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1911

AMES 97-707 IA9 O2A + .53 + T9 EXTERNAL TANK

(RBD07)

MACH (1) = 1.555

BETAT (5) = 7.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5120	1.3170	.5790	.1720	-.1110	-.1630	-.2100	-.1920	-.1630	.0760	.0950	-.0580	-.1290	-.1190	-.0320
30.000			.5040	.1010	-.1510	-.2010	-.2400	-.2150	-.1570	.0910	-.1040	-.1080	-.1870	-.1480	-.0530
60.000			.4650	.0690	-.1650	-.1990	-.2480	-.2230	.0350	.2210	-.2240	-.0650	-.0080	-.0450	-.0420
90.000		1.2060	.4680	.0740	-.1650	-.1980	-.2480	-.2270	.3550	-.0530	-.4020	-.1810	-.2790	-.0670	-.1560
120.000			.4870	.1020	-.1470	-.1850	-.2400	-.2190	.0990	.4080	.0610	.0290	-.0520	-.0530	-.0770
135.000								-.2100		.1190		-.0450		-.0630	
150.000			.5680	.1580	-.1100	-.1520	-.2050	-.1910	-.0300	.3450	.0930	-.0570	-.1030	-.0760	-.0880
165.000				.1930	-.0840	-.1240	-.1820	-.1710	-.0840	.3520	.0090		-.1450		-.0730
180.000	1.5120	1.4070	.6700	.2350	-.0590	-.0970	-.1630	-.1450	-.0890	.5130	.0900	-.0420	-.1390	-.1050	-.0020
270.000		1.5100													

X/LT .7449 .8526 .9290

PHI

.000	.0080	.0420	.0270
30.000	.0390	.0320	.0230
60.000	.0720	.0350	.0260
90.000			-.0110
120.000	-.0700	.0360	-.0610
135.000	-.1000	-.0620	-.1700
150.000	-.1780	-.0880	-.1050
165.000		-.1680	-.2000
180.000	-.1560		

MACH (1) = 1.555

BETAT (6) = 9.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4840	1.2870	.5510	.1570	-.1150	-.1720	-.2170	-.2050	-.1800	.0810	.0650	-.0910	-.1460	-.1140	-.0080
30.000			.4570	.0720	-.1670	-.2140	-.2500	-.2300	-.1580	.0550	-.0870	-.1410	-.1990	-.0780	-.0010
60.000			.4170	.0410	-.1800	-.2120	-.2590	-.2300	.0210	.2370	-.1990	-.0320	.0070	.0220	.0030
90.000		1.1400	.4140	.0410	-.1810	-.2130	-.2610	-.2400	.3510	-.0440	-.3720	-.2090	-.1970	.0510	-.0790
120.000			.4420	.0630	-.1710	-.2010	-.2490	-.2340	.0980	.3520	.0610	-.0080	-.1030	-.0010	-.0570
135.000								-.2070		.1480		-.0400		-.0180	
150.000			.5270	.1280	-.1320	-.1640	-.2240	-.1970	.0070	.3050	.0460	-.0980	-.1340	-.0660	-.0110
165.000				.1740	-.1000	-.1320	-.1980	-.1920	-.0850	.3760	-.0400		-.2280		-.0260
180.000	1.4840	1.3810	.6490	.2250	-.0660	-.1080	-.1660	-.1600	-.1080	.5830	.0240	-.0840	-.2150	-.1580	-.1220
270.000		1.5270													

X/LT .7449 .8526 .9290

PHI

AMES 97-757 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT07)

MACH (1) = 1.555

BETAT (6) = 9.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0260	.0090	-.0070
30.000	.0110	-.0110	-.0260
60.000	.0380	-.0140	-.0160
90.000			-.0300
120.000	-.1050	-.0520	-.1140
135.000	-.1150	-.0980	-.1720
150.000	-.1470	-.0950	-.1700
165.000		-.2600	-.2080
180.000	-.1180		

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6330	1.4110	.5550	.1960	-.0420	-.0870	-.1260	-.1210	-.1090	-.0810	.0930	.0210	-.0540	-.0840	-.0320
30.000			.6620	.2750	.0160	-.0400	-.0880	-.0780	-.0660	.0400	-.0560	-.1400	-.1270	-.0380	-.0220
60.000			.7780	.3580	.0770	.0240	-.0410	-.0320	.0670	.2400	-.1670	-.1720	-.0630	.0130	-.0020
90.000		1.6170	.8440	.4150	.1140	.0590	-.0110	-.0010	.3670	.1730	-.2520	-.2490	.0680	-.0200	-.0720
120.000			.8360	.4070	.1160	.0600	-.0080	.0010	.0670	.3780	-.0910	-.0100	.0670	.2400	.1270
135.000								-.0140		.2020		.1240		.1060	
150.000			.7640	.3570	.0740	.0240	-.0380	-.0330	-.0190	.1070	.4320	.1790	.1010	.0530	.0770
165.000				.3060	.0440	-.0010	-.0620	-.0550	-.0350	.0740	.4150		.0510		.0040
180.000	1.6330	1.4820	.6510	.2610	.0130	-.0280	-.0850	-.0780	-.0340	.1140	.2800	.1190	-.0100	-.0500	-.0860
270.000		1.2760													

X/LT .7449 .8526 .9290

PHI

.000	-.0580	-.0380	-.0260
30.000	-.0460	-.0380	-.0250
60.000	.0090	-.0390	.0650
90.000			.0580
120.000	.0720	.2350	.2770
135.000	.1130	.3020	.1880
150.000	.1000	.2760	.1930
165.000		.5900	.1080
180.000	-.0430		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1913

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT97)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6380	1.4140	.5570	.1950	-.0460	-.0930	-.1190	-.1130	-.0950	-.0720	.1080	.0350	-.0440	-.0720	-.0210
30.000			.6430	.2430	-.0080	-.0580	-.0900	-.0780	-.0620	.0470	-.0270	-.1250	-.1070	-.0410	-.0190
60.000			.7360	.3060	.0430	.0090	-.0550	-.0470	.0530	.2400	-.1610	-.1820	-.0820	.0010	-.0010
90.000		1.5780	.7920	.3540	.0760	.0400	-.0260	-.0220	.3410	.1730	-.2490	-.2560	.0250	-.0490	-.0910
120.000			.7960	.3630	.0790	.0430	-.0200	-.0180	.0250	.3920	-.0630	-.0310	.0420	.1910	.1040
135.000								-.0270		.2750		.0870		.0780	
150.000			.7470	.3290	.0530	.0130	-.0430	-.0370	-.0140	.1070	.4310	.1440	.0980	.0280	.0590
165.000				.2980	.0310	-.0040	-.0610	-.0550	-.0140	.1290	.4060		.0670	.0250	
180.000	1.6380	1.4890	.6620	.2660	.0070	-.0210	-.0770	-.0730	-.0290	.1590	.2870	.1790	.0180	-.0100	-.0590
270.000		1.3230													

X/LT .7449 .8526 .9290

PHI

.000	-.0370	-.0100	-.0030
30.000	-.0300	-.0240	-.0100
60.000	.0140	-.0270	.0500
90.000			.0650
120.000	.0530	.1720	.2450
135.000	.0890	.2520	.1320
150.000	.0810	.2510	.1380
165.000		.4430	.0880
180.000	-.0570		

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6600	1.4270	.5680	.1990	-.0380	-.0840	-.1160	-.1080	-.0850	-.0630	.1360	.0440	-.0300	-.0670	-.0360
30.000			.6180	.2370	-.0060	-.0590	-.0950	-.0850	-.0610	.0610	-.0040	-.1080	-.0790	-.0540	-.0070
60.000			.6800	.2850	.0260	-.0100	-.0680	-.0560	.0290	.2360	-.1700	-.1890	-.0750	-.0060	.0000
90.000		1.5470	.7310	.3220	.0510	.0130	-.0450	-.0340	.3230	.1710	-.2510	-.2630	-.0340	-.0760	-.0990
120.000			.7460	.3360	.0600	.0190	-.0380	-.0280	.0150	.3850	-.0870	-.0200	.0090	.1480	.0830
135.000								-.0350		.2000		.0690		.0630	
150.000			.7230	.3220	.0480	.0080	-.0500	-.0440	-.0110	.0950	.4370	.1130	.0810	.0350	.0540
165.000				.2970	.0330	-.0050	-.0610	-.0540	-.0350	.1940	.3850		.0640		-.0070
180.000	1.6600	1.5110	.6740	.2710	.0180	-.0170	-.0740	-.0670	-.0510	.2460	.2660	.2260	.0480	.0140	-.0750
270.000		1.3780													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(R80797)

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0210	.0070	.0110
30.000	-.0270	-.0000	.0000
60.000	.0200	-.0300	.0290
90.000			.0920
120.000	.0230	.1180	.1910
135.000	.0480	.2080	.0890
150.000	.0400	.2470	.0830
165.000		.4260	-.0050
180.000	-.0180		

MACH (2) = 2.000

BETAT (4) = 3.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6650	1.4210	.5720	.2080	-.0360	-.0840	-.1140	-.1040	-.0880	-.0670	.1410	.0450	-.0250	-.0690	-.0430
30.000			.5320	.1670	-.0520	-.0990	-.1270	-.1180	-.0920	.0690	-.0870	.0220	-.0230	-.0790	-.0580
60.000			.5200	.1520	-.0590	-.0860	-.1290	-.1180	.0160	.2310	-.1270	-.1730	-.0420	-.0050	-.0130
90.000		1.3890	.5350	.1630	-.0550	-.0820	-.1240	-.1150	.2260	.1840	-.2380	-.2050	-.1210	-.1210	-.0560
120.000			.5610	.1840	-.0300	-.0650	-.1140	-.1050	-.0230	.2360	.0400	-.0070	.0890	.0380	-.0170
135.000								-.1020		.0300		.0260		.0290	
150.000			.6210	.2300	-.0100	-.0440	-.0960	-.0900	-.0730	.2150	.2640	.1400	.0280	-.0480	-.0390
165.000				.2480	.0040	-.0290	-.0830	-.0800	-.0640	.2070	.2560		.0730		-.0830
180.000	1.6650	1.5150	.6890	.2670	.0180	-.0160	-.0730	-.0670	-.0540	.2380	.2690	.2340	.0700	.0190	-.0740
270.000		1.5450													

X/LT .7449 .8526 .9290

PHI

.000	-.0270	-.0060	-.0010
30.000	-.0150	-.0050	.0000
60.000	-.0210	-.0170	.0150
90.000			.0100
120.000	-.0590	-.0120	.0000
135.000	-.0390	-.0260	-.0700
150.000	-.0190	-.0800	-.1400
165.000		-.0410	-.1560
180.000	.0090		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1915

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBOT07)

MACH (2) = 2.000

BETAT (5) = 5.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6540	1.4160	.5700	.2100	-.0350	-.0800	-.1160	-.1120	-.0950	-.0830	.1190	.0410	-.0460	-.0810	-.0340
30.000			.5110	.1510	-.0610	-.1080	-.1380	-.1300	-.1050	.0730	-.1040	-.0480	-.0620	-.1140	-.0840
60.000			.4760	.1260	-.0770	-.1010	-.1410	-.1340	.0210	.1780	-.1170	-.1630	-.0280	-.0140	-.0310
90.000		1.3390	.4840	.1330	-.0690	-.0980	-.1410	-.1330	.1880	.1980	-.2340	-.1560	-.1270	-.1390	-.0520
120.000			.5110	.1600	-.0520	-.0830	-.1320	-.1230	.0010	.1420	.1110	-.0160	.0740	.0170	-.0510
135.000								-.1150		.0610		-.0240		.0080	
150.000			.5830	.2130	-.0230	-.0560	-.1070	-.1000	-.0820	.2070	.2130	.1090	-.0180	-.0580	-.0540
165.000				.2400	-.0070	-.0400	-.0940	-.0880	-.0550	.1780	.2170		.0060		-.1220
180.000	1.6540	1.5080	.6720	.2740	.0170	-.0220	-.0770	-.0720	-.0360	.1640	.2690	.1840	.0200	.0210	-.0590
270.000		1.5850													

X/LT .7449 .8526 .9290

PHI

.000	-.0520	-.0310	-.0220
30.000	-.0200	-.0170	-.0100
60.000	-.0380	-.0160	.0000
90.000			-.0070
120.000	-.0800	-.0260	-.0490
135.000	-.0600	-.0620	-.0840
150.000	-.0530	-.1610	-.1130
165.000		-.1640	-.1690
180.000	-.0590		

MACH (2) = 2.000

BETAT (6) = 8.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6400	1.4000	.5600	.2040	-.0380	-.0830	-.1180	-.1130	-.1010	-.0870	.0870	.0150	-.0580	-.0920	-.0430
30.000			.4770	.1320	-.0770	-.1190	-.1460	-.1410	-.1130	.0620	-.0700	-.0670	-.0950	-.1180	-.0640
60.000			.4310	.1010	-.0960	-.1200	-.1560	-.1470	.0250	.1460	-.0880	-.1410	-.0090	-.0070	-.0560
90.000		1.2920	.4390	.1010	-.0960	-.1190	-.1590	-.1480	.1630	.2040	-.2240	-.1380	-.1220	-.1510	-.0550
120.000			.4710	.1260	-.0810	-.1080	-.1470	-.1390	.0510	.0570	.1560	-.0160	.0300	.0080	-.0760
135.000								-.1280		.1180		.0400		-.0170	
150.000			.5540	.1890	-.0440	-.0740	-.1200	-.1130	-.0560	.1660	.1320	.1040	-.0510	-.0850	-.0680
165.000				.2260	-.0150	-.0490	-.0980	-.0930	-.0470	.1310	.1780		-.0630		-.1450
180.000	1.6400	1.4980	.6620	.2700	.0140	-.0240	-.0760	-.0670	-.0320	.1300	.2640	.1250	-.0160	-.0480	-.0810
270.000		1.6100													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1916

AMES 97-707 1A9 Q24 + S3 + T9 EXTERNAL TANK

(RB0707)

MACH (2) = 2.000

BETAT (6) = 8.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0720	-.0660	-.0480
30.000	-.0300	-.0270	-.0200
60.000	-.0380	-.0180	-.0030
90.000			-.0250
120.000	-.0810	-.0540	-.0380
135.000	-.0810	-.1040	-.0670
150.000	-.0730	-.2350	-.1560
165.000		-.1710	-.1510
180.000	-.0480		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1917

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT08) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5500 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4890	1.2670	.5140	.1210	-.1330	-.1890	-.2360	-.2180	-.1910	.0800	.0750	-.0920	-.1660	-.1300	-.0480
30.000			.6150	.2040	-.0780	-.1370	-.1940	-.1740	-.1420	-.0160	-.2240	-.2390	-.0730	-.0640	-.0760
60.000			.7500	.3030	-.0050	-.0590	-.1310	-.1180	.1630	.0340	-.3730	-.2190	-.0810	-.0560	-.0040
90.000		1.5160	.8520	.3900	.0630	-.0030	-.0860	-.0720	.5860	-.0910	-.4490	-.1120	-.1610	-.2020	-.1750
120.000			.8700	.4150	.0820	.0210	-.0620	-.0570	.2820	.2790	-.1350	.0040	.2150	.2120	.0430
135.000								-.0680		.2780		.0600		.1830	
150.000			.8200	.3740	.0470	-.0130	-.0920	-.0840	-.0530	.3170	.2730	.0770	.0210	.0980	.0540
165.000				.3260	.0120	-.0430	-.1140	-.1100	-.0800	.4250	.2650		-.0670		-.0140
180.000	1.4890	1.4160	.7060	.2770	-.0270	-.0770	-.1450	-.1380	-.1060	.3470	.1070	-.0350	-.1450	-.1060	.0130
270.000		1.1580													

X/LT .7449 .8526 .9290

PHI
 .000 .0420 .0280 .0050
 30.000 -.0430 -.0120 .0180
 60.000 -.0030 .0030 .0480
 90.000 -.1420
 120.000 .0580 .2510 .1480
 135.000 .0590 .2990 .1390
 150.000 .0330 .2770 .1180
 165.000 .4650 .0880
 180.000 -.1540

MACH (1) = 1.555

BETAT (2) = -6.150

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5090	1.2790	.5130	.1200	-.1340	-.1870	-.2330	-.2140	-.1750	.0970	.0770	-.0620	-.1540	-.1410	-.0180
30.000			.5990	.1810	-.0890	-.1500	-.2060	-.1890	-.1520	-.0120	-.1930	-.2050	-.0810	-.0500	-.0680
60.000			.7030	.2630	-.0340	-.0880	-.1600	-.1400	.1320	.0290	-.3760	-.2370	-.0800	-.0350	-.0110
90.000		1.4940	.7960	.3370	.0240	-.0380	-.1170	-.1020	.5660	-.0960	-.4470	-.1290	-.1790	-.2170	-.1460
120.000			.8320	.3720	.0530	-.0100	-.0890	-.0810	.2380	.2930	-.0750	-.0320	.1710	.1880	.0300
135.000								-.0880		.3370		.0190		.1590	
150.000			.8050	.3540	.0350	-.0250	-.1040	-.0950	-.0640	.3390	.2710	.0710	.0000	.0800	.0420

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RB0108)

MACH (1) = 1.555

BETAT (2) = -6.150

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.3180	.0070	-.0480	-.1180	-.1080	-.0800	.3710	.2410		-.0510		.0750
180.000	1.5090	1.4410	.7210	.2770	-.0190	-.0730	-.1420	-.1310	-.0750	.4980	.0840	.0080	-.0720	-.0520	-.0060
270.000		1.2150													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0130	.0350	.0250
30.000	-.0430	-.0420	.0160
60.000	-.0080	-.0200	.0200
90.000			-.0730
120.000	.0290	.1940	.0990
135.000	.0280	.2370	.0840
150.000	-.0110	.2280	.0610
165.000		.4110	.0470
180.000	-.1560		

MACH (1) = 1.555

BETAT (3) = -3.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5340	1.2970	.5300	.1280	-.1340	-.1880	-.2290	-.2070	-.1650	.1100	.0940	-.0460	-.1480	-.1640	.0010
30.000			.5740	.1570	-.1060	-.1640	-.2140	-.1920	-.1490	-.0210	-.1140	-.1670	-.0950	-.0560	-.0560
60.000			.6400	.2080	-.0710	-.1220	-.1860	-.1630	.1020	.0450	-.3710	-.2350	-.0640	-.0110	-.0310
90.000		1.4470	.7090	.2620	-.0310	-.0830	-.1530	-.1400	.5120	-.0840	-.4370	-.1920	-.2270	-.1640	-.1770
120.000			.7510	.3090	.0040	-.0520	-.1230	-.1140	.2070	.3330	-.0180	-.0540	.1080	.1340	-.0110
135.000								-.1100		.2590		-.0350		.0990	
150.000			.7680	.3220	.0070	-.0440	-.1210	-.1100	-.0730	.3830	.2410	.0730	.0360	.0450	.0100
165.000				.3080	-.0050	-.0540	-.1240	-.1160	-.0800	.3840	.2010		.0040		.0140
180.000	1.5340	1.4690	.7380	.2880	-.0140	-.0690	-.1410	-.1250	-.0900	.2940	.0930	.0780	-.0150	-.0270	-.0030
270.000		1.3060													

X/LT	.7449	.8526	.9290
PHI			
.000	.0060	.0060	-.0050
30.000	-.0160	-.0120	-.0120
60.000	-.0160	-.0080	.0180
90.000			.0120
120.000	-.0370	.1230	.0460
135.000	-.0530	.1530	.0080
150.000	-.0560	.1840	-.0690

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1919

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBOT08)

MACH (1) = 1.555

BETAT (3) = -3.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2350 -.0880

180.000 -.0890

MACH (1) = 1.555

BETAT (4) = 5.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5150 1.2780 .5310 .1380 -.1300 -.1820 -.2250 -.2100 -.1680 .1020 .0870 -.0570 -.1550 -.1610 -.0070

30.000

.4890 .1040 -.1480 -.1990 -.2420 -.2230 -.0740 -.0030 -.0230 -.0620 -.1720 -.1150 -.0400

60.000

.4790 .0930 -.1580 -.1930 -.2430 -.2160 .0250 .1190 -.3030 -.1370 -.0330 -.0240 -.0580

90.000

1.2480 .5050 .1100 -.1470 -.1820 -.2340 -.2150 .3690 -.0650 -.3850 -.1960 -.2510 .0100 -.1580

120.000

.5490 .1530 -.1150 -.1580 -.2150 -.1990 .1400 .4120 .0880 .0640 -.0130 .0020 -.0810

135.000

.6340 .2240 -.0660 -.1140 -.1790 -.1650 .1380 .3190 .1220 .0030 -.0400 -.0190 -.0600

150.000

.2560 -.0380 -.0870 -.1550 -.1470 -.0950 .3880 .0390 -.0760 -.0580

165.000

1.5150 1.4480 .7260 .2880 -.0120 -.0610 -.1340 -.1200 -.0690 .4700 .0810 .0170 -.0520 -.0530 -.0060

180.000

270.000 1.4720

X/LT .7449 .8526 .9290

PHI

.000 .0050 -.0010 .0120

30.000

.0000 .0150 .0410

60.000

.0030 .0370 .0480

90.000

-.0090

120.000

-.1270 .0070 -.0480

135.000

-.1290 -.0830 -.0360

150.000

-.1610 -.2100 -.0380

165.000

-.1350 -.1470

180.000

-.1440

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(R80T08)

MACH (1) = 1.555

BETAT (5) = 7.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5020	1.2670	.5260	.1320	-.1300	-.1830	-.2320	-.2140	-.1800	.0930	.0860	-.0820	-.1590	-.1380	-.0450
30.000			.4630	.0760	-.1630	-.2100	-.2500	-.2300	-.0770	.0220	-.0790	-.0780	-.1800	-.1480	-.0630
60.000			.4420	.0590	-.1700	-.2060	-.2550	-.2300	.0120	.1420	-.2730	-.0810	-.0380	-.0400	-.0400
90.000		1.1990	.4620	.0690	-.1640	-.2040	-.2530	-.2320	.3650	-.0600	-.2850	-.2070	-.1570	-.0190	-.1260
120.000			.5030	.1130	-.1390	-.1800	-.2390	-.2250	.1130	.4270	.0950	.0360	-.0330	-.0240	-.0990
135.000							-.2100			.1900		.0100		-.0460	
150.000			.6050	.1920	-.0060	-.1330	-.1960	-.1810	-.0600	.3780	.0730	-.0450	-.0590	-.0460	-.0970
165.000				.2320	-.0530	-.1010	-.1670	-.1540	-.0870	.4200	-.0020		-.1150		-.0890
180.000	1.5020	1.4390	.7200	.2790	-.0230	-.0740	-.1380	-.1250	-.0840	.5880	.0000	-.0390	-.1320	-.0770	.0020
270.000		1.5000													

X/LT .7449 .8526 .9290

PHI

.000	.0300	.0360	.0160
30.000	.0330	.0240	.0120
60.000	.0570	.0220	.0160
90.000		-.0230	
120.000	-.1130	-.0070	-.0830
135.000	-.1500	-.0860	-.1800
150.000	-.2000	-.1070	-.1340
165.000		-.2090	-.2140
180.000	-.1650		

MACH (1) = 1.555

BETAT (6) = 9.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4790	1.2370	.5010	.1170	-.1390	-.1930	-.2400	-.2280	-.1940	.0680	.0540	-.1030	-.1600	-.1130	-.0150
30.000			.4240	.0500	-.1800	-.2280	-.2610	-.2370	-.0520	.0240	-.0950	-.1440	-.2150	-.0940	-.0170
60.000			.3990	.0280	-.1840	-.2170	-.2630	-.2350	-.0020	.1600	-.2440	-.0560	.0210	.0270	.0070
90.000		1.1380	.4140	.0390	-.1830	-.2150	-.2660	-.2420	.3320	-.0570	-.2220	-.2160	-.0420	.1130	-.0260
120.000			.4530	.0770	-.1640	-.1980	-.2530	-.2260	.0940	.2990	.0820	.0080	-.0690	.0960	-.0600
135.000							-.1930			.2560		.0000		.0130	
150.000			.5630	.1580	-.1110	-.1550	-.2060	-.1850	-.0080	.3070	.0150	-.0960	-.0860	-.0460	-.0350
165.000				.2150	-.0710	-.1190	-.1710	-.1660	-.0940	.4290	-.0500		-.2230		-.0590
180.000	1.4790	1.4210	.7040	.2760	-.0300	-.0820	-.1450	-.1270	-.1010	.6770	.0920	-.0810	-.2010	-.1600	.0050
270.000		1.5180													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1921

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RBOT08)

MACH (1) = 1.555

BETAT (6) = 9.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0330	.0110	-.0080
30.000	.0060	-.0190	-.0260
60.000	.0310	-.0170	.0000
90.000			-.0420
120.000	-.1240	-.0680	-.1330
135.000	-.1320	-.1160	-.1820
150.000	-.1770	-.1330	-.1850
165.000		-.2670	-.2190
180.000	-.1250		

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6240	1.3670	.5020	.1590	-.0670	-.1100	-.1430	-.1380	-.1230	-.0820	.0920	.0130	-.0700	-.1020	-.0420
30.000			.6100	.2270	-.0130	-.0660	-.1060	-.0970	-.0890	.0090	-.0980	-.1740	-.1490	-.0420	-.0380
60.000			.7400	.3270	.0500	.0090	-.0530	-.0470	.0870	.1700	-.2020	-.2070	-.0540	-.0110	-.0610
90.000		1.6100	.8420	.4070	.1110	.0590	-.0100	-.0050	.3700	.1600	-.2400	-.2350	-.0430	-.0310	-.0580
120.000			.8700	.4310	.1300	.0790	.0080	.0120	.0600	.4260	-.0520	.0380	.0950	.2400	.1280
135.000								.0030		.3560		.1390		.1770	
150.000			.8230	.3920	.1020	.0540	-.0130	-.0110	.0120	.1150	.5070	.2020	.1220	.0860	.0790
165.000				.3500	.0700	.0300	-.0340	-.0330	-.0180	.1630	.4210		.0690		.0110
180.000	1.6240	1.5140	.7100	.2980	.0380	.0000	-.0590	-.0580	-.0240	.1620	.2730	.1360	-.0120	-.0400	-.0740
270.000		1.2660													

X/LT .7449 .8526 .9290

PHI

.000	-.0620	-.0260	-.0150
30.000	-.0630	-.0760	-.0510
60.000	.0180	.0170	.0500
90.000			.0200
120.000	.0910	.2160	.2650
135.000	.0920	.2900	.1520
150.000	.0900	.2650	.1740
165.000		.5650	.0950
180.000	-.0420		

AMES 97-707 1A9 02A + 53 + T9 EXTERNAL TANK

(RBOT08)

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6340	1.3710	.5040	.1610	-.0710	-.1130	-.1370	-.1320	-.1100	-.0660	.0920	.0290	-.0620	-.0950	-.0380
30.000			.5880	.2040	-.0320	-.0820	-.1110	-.0990	-.0830	.0110	-.0750	-.1600	-.1320	-.0430	-.0320
60.000			.6990	.2780	.0220	-.0120	-.0690	-.0640	.0700	.1710	-.2010	-.2150	-.0770	-.0270	-.0380
90.000		1.5740	.7890	.3490	.0740	.0380	-.0290	-.0240	.3510	.1530	-.2400	-.2390	-.0900	-.0570	-.0770
120.000			.8250	.3820	.0940	.0560	-.0080	-.0050	.0480	.4470	-.0440	.0200	.0600	.1870	.1010
135.000								-.0050		.2030		.0980		.1390	
150.000			.8000	.3730	.0820	.0390	-.0230	-.0140	.0210	.1190	.5190	.1560	.1210	.0560	.0570
165.000				.3420	.0620	.0230	-.0390	-.0330	.0010	.1730	.3990		.0760		.0380
180.000	1.6340	1.5260	.7130	.3090	.0340	.0010	-.0560	-.0510	-.0090	.2030	.2790	.1810	.0120	-.0080	-.0410
270.000		1.3140													

X/LT .7449 .8526 .9290

PHI

.000	-.0380	-.0010	.0040
30.000	-.0440	-.0580	-.0300
60.000	.0080	.0200	.0380
90.000			.0460
120.000	.0610	.1580	.2280
135.000	.0690	.2430	.1160
150.000	.0730	.2510	.1360
165.000		.5050	.0360
180.000	-.0220		

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6460	1.3710	.5140	.1600	-.0630	-.1070	-.1320	-.1230	-.1020	-.0570	.1120	.0330	-.0460	-.0930	-.0490
30.000			.5680	.1930	-.0330	-.0820	-.1130	-.1020	-.0840	.0200	-.0510	-.1410	-.1000	-.0480	-.0280
60.000			.6480	.2530	.0060	-.0270	-.0820	-.0700	.0490	.1650	-.2060	-.2240	-.0860	-.0470	-.0140
90.000		1.5330	.7220	.3110	.0460	.0100	-.0490	-.0370	.3310	.1500	-.2410	-.2460	-.0970	-.0820	-.0900
120.000			.7630	.3520	.0700	.0320	-.0270	-.0180	.0340	.4600	-.0490	.0150	.0330	.1490	.0760
135.000								-.0200		.1160		.0830		.1210	
150.000			.7640	.3520	.0730	.0350	-.0300	-.0250	.0080	.1410	.4270	.1320	.0990	.0690	.0580
165.000				.3310	.0590	.0240	-.0370	-.0340	-.0160	.2970	.3910		.0630		.0130
180.000	1.6460	1.5380	.7270	.3050	.0430	.0080	-.0510	-.0470	-.0300	.2720	.2710	.2490	.0420	.0320	-.0510
270.000		1.3610													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1923

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RB0T06)

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0180	.0130	.0130
30.000	-.0350	-.0220	-.0200
60.000	.0000	.0150	.0270
90.000			.0900
120.000	.0300	.0990	.1730
135.000	.0320	.2100	.0730
150.000	.0310	.2620	.0780
165.000		.3950	-.0150
180.000	.0070		

MACH (2) = 2.000

BETAT (4) = 3.920

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6520	1.3730	.5140	.1700	-.0500	-.0930	-.1320	-.1240	-.1030	-.0520	.1170	.0410	-.0440	-.0890	-.0520
30.000			.4890	.1440	-.0620	-.1060	-.1390	-.1310	-.1020	.0440	-.0720	.0080	-.0480	-.1010	-.0720
60.000			.4890	.1420	-.0630	-.0960	-.1390	-.1270	.0120	.1810	-.1760	-.2040	-.0660	-.0730	-.0030
90.000		1.3720	.5230	.1610	-.0520	-.0860	-.1280	-.1180	.2310	.1670	-.2240	-.1310	-.1070	-.1210	-.0210
120.000			.5760	.2040	-.0240	-.0600	-.1080	-.1030	-.0720	.2460	.1180	.0130	.1080	.0580	-.0080
135.000								-.0910		.0500		.0300		.0540	
150.000			.6620	.2690	.0210	-.0240	-.0820	-.0760	-.0640	.2400	.2730	.1420	.0370	.0000	-.0190
165.000				.2940	.0370	-.0060	-.0640	-.0610	-.0490	.2300	.2510		.1000		-.0430
180.000	1.6520	1.5490	.7370	.3180	.0540	.0080	-.0530	-.0470	-.0350	.2600	.2550	.2280	.0680	.0360	-.0420
270.000		1.5360													

X/LT .7449 .8526 .9290

PHI

.000	-.0190	.0030	.0040
30.000	-.0130	-.0010	.0050
60.000	-.0200	-.0150	.0070
90.000			.0020
120.000	-.0540	-.0170	-.0090
135.000	-.0330	-.0240	-.0750
150.000	-.0110	-.0660	-.1490
165.000		-.0460	-.1650
180.000	.0080		

AMES 97-737 IA9 Q2A + S3 + T9 EXTERNAL TANK

(R80T08)

MACH (2) = 2.000

BETAT (5) = 5.960

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6460	1.3620	.5030	.1620	-.0660	-.1080	-.1320	-.1250	-.1070	-.0780	.1140	.0330	-.0620	-.0940	-.0440
30.000			.4560	.1150	-.0840	-.1280	-.1450	-.1350	-.1100	.0520	-.0970	-.0120	-.0480	-.1050	-.0070
60.000			.4500	.1070	-.0930	-.1080	-.1460	-.1350	.0150	.1670	-.1580	-.1860	-.0460	-.0730	-.0150
90.000		1.3250	.4720	.1200	-.0820	-.0970	-.1380	-.1310	.2020	.1850	-.2150	-.1020	-.1120	-.1320	-.0310
120.000			.5190	.1630	-.0570	-.0750	-.1190	-.1160	-.0390	.1370	.1880	.0080	.0920	.0450	-.0360
135.000								-.1010		.1170		-.0110		.0320	
150.000			.6160	.2340	-.0100	-.0390	-.0910	-.0840	-.0610	.2210	.2290	.1210	.0000	-.0100	-.0350
165.000			.2660	.0130	-.0130	-.0750	-.0650	-.0290	.1970	.2210		.0170		-.0560	
180.000	1.6460	1.5420	.7160	.3040	.0400	.0070	-.0500	-.0460	-.0130	.1920	.2670	.1920	.0250	.0240	-.0330
270.000		1.5760													

X/LT .7449 .8526 .9290

PHI			
.000	-.0480	-.0150	-.0120
30.000	-.0180	-.0090	-.0020
60.000	-.0410	-.0200	-.0010
90.000			-.0070
120.000	-.0660	-.0310	-.0590
135.000	-.0520	-.0550	-.1110
150.000	-.0460	-.1500	-.1290
165.000		-.1560	-.1890
180.000	-.0010		

MACH (2) = 2.000

BETAT (6) = 8.010

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6110	1.3320	.4930	.1570	-.0680	-.1090	-.1320	-.1270	-.1150	-.0990	.1020	.0040	-.0780	-.1030	-.0460
30.000			.4320	.0940	-.0970	-.1380	-.1540	-.1460	-.1190	.0630	-.0990	-.0570	-.0940	-.1270	-.0870
60.000			.4130	.0800	-.1070	-.1210	-.1570	-.1490	.0160	.1590	-.1370	-.1690	-.0280	-.0630	-.0410
90.000		1.2610	.4280	.0890	-.1050	-.1190	-.1580	-.1480	.1710	.1950	-.2050	-.0800	-.1200	-.1480	-.0170
120.000			.4760	.1310	-.0810	-.0990	-.1410	-.1350	.0450	.0300	.2140	.0040	.0530	.0250	-.0600
135.000								-.1200		.1150		.0360		.0130	
150.000			.5760	.2110	-.0300	-.0560	-.1040	-.0090	-.0510	.1970	.1940	.1150	-.0370	-.0310	-.0450
165.000			.2530	.0010	-.0270	-.0780	-.0730	-.0430	.1000	.1800		.0500		-.1280	
180.000	1.6110	1.5080	.7010	.2960	.0340	.0060	-.0520	-.0450	-.0270	.2010	.2710	.1410	-.0100	-.0350	-.0650
270.000		1.5780													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1925

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT08)

MACH (2) = 2.000

BETAT (6) = 8.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0710	-.0490	-.0330
30.000	-.0170	-.0180	-.0140
60.000	-.0430	-.0190	.0090
90.000			-.0210
120.000	-.0690	-.0490	-.1110
135.000	-.0620	-.0960	-.0820
150.000	-.0720	-.2270	-.1560
165.000		-.1690	-.1680
180.000	-.0450		

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT09) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.160

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4660	1.2110	.4550	.0870	-.1600	-.2110	-.2540	-.2380	-.2010	.0640	.0410	-.1070	-.1800	-.1280	-.0340
30.000			.5610	.1640	-.1060	-.1650	-.2170	-.2000	-.1390	-.0830	-.2720	-.2670	-.0830	-.0850	-.0850
60.000			.7100	.2770	-.0230	-.0770	-.1520	-.1310	.1130	-.0430	-.3960	-.2430	-.1210	-.0620	-.0260
90.000	1.4960		.8420	.3830	.0600	-.0040	-.0840	-.0730	.6180	-.1070	-.4260	-.1560	-.1500	-.1670	-.1720
120.000			.8990	.4450	.1050	.0400	-.0440	-.0350	.3150	.3380	-.0180	.0520	.2230	.2070	.0310
135.000								-.0410		.3450		.0880		.1770	
150.000			.8670	.4210	.0850	.0220	-.0600	-.0530	-.0200	.3020	.2920	.1060	.0990	.0930	.0490
165.000				.3770	.0520	-.0060	-.0840	-.0720	-.0450	.4710	.2660		-.0420		.0920
180.000	1.4660	1.4390	.7550	.3210	.0130	-.0430	-.1170	-.1070	-.0770	.4960	.0980	-.0390	-.1360	-.0690	-.0060
270.000		1.1390													

X/LT .7449 .8526 .9290

PHI

.000	.0430	.0270	.0080
30.000	-.0650	-.0020	.0140
60.000	.0030	-.0280	.0230
90.000			-.1550
120.000	.0810	.2440	.1290
135.000	.0610	.2930	.1210
150.000	.0290	.2720	.1050
165.000		.4690	.0700
180.000	-.1580		

MACH (1) = 1.555

BETAT (2) = -6.170

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4920	1.2260	.4630	.0830	-.1640	-.2110	-.2520	-.2320	-.1840	.0830	.0560	-.0850	-.1760	-.1370	-.0200
30.000			.5450	.1420	-.1230	-.1800	-.2280	-.2100	-.1420	-.0740	-.2420	-.2310	-.0810	-.0660	-.0860
60.000			.6680	.2330	-.0540	-.1050	-.1770	-.1570	.0890	-.0610	-.4120	-.2470	-.1390	-.0330	-.0320
90.000	1.4810		.7920	.3300	.0180	-.0430	-.1180	-.1030	.5710	-.1140	-.4230	-.1550	-.1720	-.0120	-.1960
120.000			.8590	.4910	.0680	.0080	-.0740	-.0630	.2770	.3540	.0150	.1190	.1720	.1770	.0140
135.000								-.0630		.3550		.0690		.1450	
150.000			.8570	.4020	.0660	.0080	-.0710	-.0650	-.0360	.4660	.2730	.0900	.0850	.0840	.0980

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(R00T09)

MACH (1) = 1.555

BETAT (2) = -6.170

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

MACH (1) = 1.555

BETAT (3) = -4.180

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

PHI			
.000	.0090	-.0040	-.0120
30.000	-.0410	-.0310	-.0120
60.000	-.0050	-.0230	.0010
90.000			-.0170
120.000	-.0190	.1380	.0330
135.000	-.0370	.1770	.0140
150.000	-.0490	.1850	-.0120

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(R80T09)

MACH (1) = 1.555

BETAT (3) = -4.180

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2880 -.0980

180.000 -.1330

MACH (1) = 1.555

BETAT (4) = 3.640

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5240 1.2430 .4850 .1030 -.1530 -.2040 -.2430 -.2180 -.1670 .0890 .0800 -.0710 -.1790 -.1510 -.0070

30.000 .4690 .0830 -.1560 -.2040 -.2450 -.2190 -.0610 -.0390 -.0050 -.1060 -.1850 -.1000 -.0390

60.000 .4850 .0930 -.1460 -.1870 -.2430 -.2180 .0030 .0130 -.3650 -.1520 -.1190 -.0190 -.0430

90.000 1.2900 .5330 .1290 -.1240 -.1690 -.2290 -.2150 .4120 -.0680 -.3300 -.1810 -.2000 -.0080 -.1110

120.000 .6060 .1940 -.0790 -.1280 -.1900 -.1800 .1700 .4410 .1170 .0850 .0310 .0560 -.0760

135.000 .7070 .2790 -.0200 -.0710 -.1400 -.1310 .1460 .3300 .1450 .0420 .0240 .0200 -.0570

150.000 .3090 .0060 -.0460 -.1180 -.1090 -.0850 .3210 .0680 -.0170 .0620

165.000 1.5240 1.5030 .7930 .3360 .0260 -.0270 -.1040 -.0960 -.0640 .4440 .0650 .0540 -.0010 .0540 -.0170

180.000 1.4470

X/LT .7449 .8526 .9290

PHI

.000 .0160 -.0020 -.0140

30.000 .0080 -.0010 -.0040

60.000 -.0090 -.0180 .0390

90.000 -.0250

120.000 -.1240 -.0070 -.1110

135.000 -.1230 -.0580 -.1800

150.000 -.1420 -.1210 -.2080

165.000 -.1440 -.1690

180.000 -.1130

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1929

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT09)

MACH (1) = 1.555

BETAT (5) = 5.690

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5100	1.2290	.4780	.1040	-.1480	-.2010	-.2490	-.2280	-.1790	.0880	.0780	-.0870	-.1800	-.1390	-.0190
30.000			.4450	.0720	-.1700	-.2180	-.2550	-.2280	-.0580	-.0260	-.0080	-.0850	-.1620	-.1290	-.0480
60.000			.4500	.0680	-.1640	-.2010	-.2540	-.2270	-.0070	.0400	-.3400	-.1240	-.0960	-.0400	-.0530
90.000		1.2390	.4920	.0890	-.1500	-.1900	-.2460	-.2280	.3710	-.0770	-.2330	-.1920	-.1510	-.0060	-.1430
120.000			.5530	.1520	-.1090	-.1530	-.2120	-.2020	.1340	.3900	.1310	.0670	-.0050	.0200	-.0910
135.000								-.1810		.1590		.0490	.0020		
150.000			.6690	.2520	-.0450	-.1030	-.1680	-.1510	-.0060	.4190	.0950	.0120	-.0030	.0120	-.0860
165.000				.2940	-.0090	-.0670	-.1360	-.1220	-.0600	.5050	.0120		-.0490		-.0880
180.000	1.5100	1.4830	.7770	.3370	.0220	-.0350	-.1090	-.0940	-.0540	.6200	.0680	-.0040	-.0520	.0230	-.0190
270.000		1.4780													

X/LT .7449 .8526 .9290

PHI			
.000	.0010	.0250	.0160
30.000	-.0030	.0350	.0330
60.000	.0180	.0280	.0350
90.000			-.0210
120.000	-.1480	.0010	-.0680
135.000	-.1550	-.0950	-.0760
150.000	-.1820	-.2390	-.0770
165.000		-.1640	-.1810
180.000	-.1690		

MACH (1) = 1.555

BETAT (6) = 7.740

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4800	1.2100	.4650	.0860	-.1500	-.2010	-.2520	-.2370	-.1990	.0740	.0510	-.1080	-.1780	-.1320	-.0430
30.000			.4110	.0480	-.1780	-.2250	-.2670	-.2430	-.0270	-.0040	-.0560	-.1020	-.1730	-.1630	-.0240
60.000			.4000	.0340	-.1810	-.2160	-.2630	-.2350	-.0180	.0610	-.3100	-.1070	-.0960	-.0180	.0240
90.000		1.1740	.4290	.0550	-.1710	-.2110	-.2630	-.2420	.3090	-.0720	-.1350	-.2190	-.1440	.0180	-.0380
120.000			.4980	.1130	-.1380	-.1810	-.2370	-.2270	.1120	.3260	.1100	.0390	-.0180	.0210	-.0930
135.000								-.2010		.3550		.0460			
150.000			.6220	.2200	-.0680	-.1240	-.1880	-.1760	-.0800	.3680	.0390	-.0500	-.0350	-.0120	-.1250
165.000				.2710	-.0240	-.0820	-.1520	-.1410	-.0910	.5040	-.0320		-.0930		-.1180
180.000	1.4800	1.4580	.7640	.3200	.0180	-.0430	-.1170	-.1000	-.0800	.6800	.0750	-.0540	-.1450	-.0590	-.0120
270.000		1.4890													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(R50T09)

MACH (1) = 1.555

BETAT (6) = 7.740

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0400	.0230	.0100
30.000	.0320	.0020	-.0100
60.000	.0480	.0020	-.0080
90.000			-.0480
120.000	-.1080	-.0070	-.1330
135.000	-.1240	-.1280	-.2010
150.000	-.2070	-.1770	-.1490
165.000		-.2790	-.2270
180.000	-.1740		

MACH (2) = 2.000

BETAT (1) = -8.340

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6110	1.3160	.4570	.1200	-.0900	-.1320	-.1600	-.1550	-.1380	-.0510	.0760	.0040	-.0830	-.1130	-.0450
30.000			.5610	.1860	-.0390	-.0880	-.1270	-.1210	-.1120	-.0340	-.1430	-.2090	-.1530	-.0590	-.0600
60.000			.7030	.3000	.0310	-.0110	-.0700	-.0620	.0480	.1040	-.2380	-.2280	-.0680	-.0700	-.0880
90.000		1.5960	.8340	.4060	.1070	.0540	-.0140	-.0050	.3880	.1430	-.2290	-.2100	-.0490	-.0320	-.0520
120.000			.9010	.4580	.1480	.0940	.0200	.0260	.0790	.5010	-.0130	.0900	.1460	.2500	.1330
135.000								.0220		.2950		.1660		.2280	
150.000			.8770	.4380	.1330	.0820	.0120	.0120	.0510	.1650	.5240	.2240	.1460	.1340	.0800
165.000				.3980	.1070	.0570	-.0080	-.0050	.0110	.3000	.4210		.0850		.0220
180.000	1.6110	1.5490	.7650	.3460	.0700	.0260	-.0360	-.0320	-.0190	.2270	.2680	.1410	-.0100	-.0360	-.0670
270.000		1.2540													

X/LT .7449 .8526 .9290

PHI

.000	-.0550	-.0230	-.0080
30.000	-.0940	-.0870	-.0620
60.000	.0080	-.0250	-.0020
90.000			.0060
120.000	.0820	.2010	.2410
135.000	.0760	.2800	.1250
150.000	.0770	.2580	.1660
165.000		.5690	.0790
180.000	-.0390		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1931

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOT09)

MACH (2) = 2.000

BETAT (2) = -6.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6240	1.3200	.4560	.1280	-.0860	-.1250	-.1520	-.1450	-.1230	-.0410	.0880	.0140	-.0700	-.1070	-.0430
30.000			.5370	.1690	-.0480	-.0950	-.1280	-.1180	-.1060	-.0130	-.1230	-.1920	-.1410	-.0460	-.0550
60.000			.6600	.2530	.0100	-.0280	-.0810	-.0750	.0360	.1000	-.2400	-.2380	-.0930	-.0860	-.0370
90.000		1.5680	.7840	.3470	.0740	.0310	-.0330	-.0240	.3760	.1370	-.2260	-.2060	-.0610	-.0460	-.0660
120.000			.8530	.4080	.1150	.0700	.0080	.0080	.0660	.5150	-.0040	.0750	.1780	.1990	.0970
135.000								.0140	.1480			.1190		.1760	
150.000			.8550	.4150	.1160	.0660	.0020	.0090	.0510	.1710	.5090	.1900	.1430	.1080	.0640
165.000				.3920	.0980	.0530	-.0120	-.0070	.0240	.2740	.3900		.0900		.0510
180.000	1.6240	1.5600	.7760	.3570	.0720	.0300	-.0310	-.0260	-.0010	.2730	.2750	.1740	.0130	-.0030	-.0180
270.000		1.3020													

X/LT .7449 .8526 .9290

PHI

.000	-.0320	-.0050	-.0050
30.000	-.0570	-.0740	-.0320
60.000	-.0220	-.0100	.0060
90.000			.0350
120.000	.0520	.1330	.2010
135.000	.0610	.2390	.0820
150.000	.0650	.2680	.1250
165.000		.4940	.0130
180.000	-.0010		

MACH (2) = 2.000

BETAT (3) = -4.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6400	1.3330	.4680	.1320	-.0800	-.1230	-.1490	-.1410	-.1130	-.0060	.0950	.0180	-.0580	-.1080	-.0540
30.000			.5230	.1590	-.0510	-.0990	-.1320	-.1240	-.1030	-.0040	-.0970	-.1730	-.1300	-.0450	-.0490
60.000			.6110	.2310	-.0110	-.0430	-.0950	-.0810	.0210	.0930	-.2410	-.2470	-.1010	-.1100	-.0480
90.000		1.5300	.7120	.3060	.0470	.0050	-.0510	-.0380	.3660	.1310	-.2260	-.2100	-.0670	-.0710	-.0790
120.000			.7930	.3740	.0890	.0440	-.0160	-.0090	.0490	.5120	-.0060	.0660	.1830	.1560	.0730
135.000								-.0020		.1280		.1050		.1520	
150.000			.8280	.3970	.1060	.0590	-.0070	-.0040	.0200	.2980	.3610	.1390	.1190	.1100	.0700
165.000				.3790	.0960	.0520	-.0120	-.0100	.0070	.3160	.4070		.0780		.0320
180.000	1.6400	1.5760	.7910	.3560	.0810	.0370	-.0290	-.0210	-.0060	.2960	.2770	.2460	.0530	.0600	-.0090
270.000		1.3590													

X/LT .7449 .8526 .9290

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RBD09)

MACH (2) = 2.000

BETAT (3) = -4.255

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0110	.0140	.0100
30.000	-.0440	-.0420	-.0190
60.000	.0020	-.0080	.0040
90.000			.0670
120.000	.0230	.0730	.1520
135.000	.0230	.1860	.0520
150.000	.0430	.2420	.0610
165.000		.3730	-.0200
180.000	.0090		

MACH (2) = 2.000

BETAT (4) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6420	1.3260	.4650	.1320	-.0850	-.1240	-.1520	-.1470	-.1190	-.0110	.0980	.0150	-.0610	-.1080	-.0550
30.000			.4430	.1020	-.0900	-.1330	-.1580	-.1500	-.1160	.0150	-.0530	-.0160	-.0740	-.1000	-.0850
60.000			.4540	.1110	-.0880	-.1140	-.1540	-.1470	-.0120	.1090	-.2230	-.2270	-.1330	-.1350	.0220
90.000		1.3600	.5050	.1420	-.0670	-.0980	-.1430	-.1320	.2400	.1500	-.2090	-.0550	-.1020	-.1210	-.0030
120.000			.5790	.2050	-.0300	-.0610	-.1100	-.1040	-.0890	.2400	.2070	.0350	.1330	.0680	.0040
135.000								-.0860		.0480		.0130		.0770	
150.000			.6960	.2940	.0270	-.0100	-.0700	-.0650	-.0550	.2650	.2660	.1190	.0420	.0480	.0040
165.000				.3330	.0510	.0130	-.0480	-.0440	-.0340	.2690	.2280		.0690		-.0100
180.000	1.6420	1.5800	.7910	.3630	.0720	.0310	-.0340	-.0270	-.0150	.2830	.2480	.2480	.0550	.0540	-.0050
270.000		1.5310													

X/LT .7449 .8526 .9290

PHI

.000	-.0120	.0010	-.0040
30.000	-.0150	-.0020	.0010
60.000	-.0160	-.0160	-.0010
90.000			-.0020
120.000	-.0470	-.0120	-.0160
135.000	-.0220	-.0180	-.0840
150.000	-.0160	-.0660	-.1510
165.000		-.0320	-.1700
180.000	.0070		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1933

AMES 97-757 IA9 02A + S3 + T9 EXTERNAL TANK

(R80T09)

MACH (2) = 2.000

BETAT (5) = 8.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6000	1.2860	.4390	.1270	-.0880	-.1280	-.1590	-.1560	-.1240	-.0900	.0410	-.0270	-.1000	-.1190	-.0520
30.000			.3870	.0710	-.1090	-.1470	-.1740	-.1620	-.1250	.0460	-.0980	-.0630	-.1100	-.1330	-.0880
60.000			.3760	.0630	-.1110	-.1360	-.1720	-.1620	-.0070	.1070	-.1880	-.1770	-.1190	-.0980	-.0440
90.000		1.2480	.4090	.0810	-.1050	-.1320	-.1700	-.1610	.1430	.1620	-.1820	-.0400	-.1360	-.1320	.0040
120.000			.4790	.1330	-.0720	-.1020	-.1460	-.1160	-.0310	.0080	.2080	.0740	.0600	.0290	-.0420
135.000								-.1190		.1360		.0270		.0220	
150.000			.6110	.2330	-.0060	-.0470	-.1000	-.0940	-.0370	.1910	.1740	.0770	-.0250	-.0110	-.0280
165.000				.2870	.0310	-.0130	-.0700	-.0650	-.0210	.1780	.1510		-.0870		-.0500
180.000	1.6000	1.5420	.7600	.3440	.0680	.0220	-.0390	-.0310	-.0180	.2520	.2640	.1290	-.0210	-.0320	-.0600
270.000		1.5780													

X/LT	.7449	.8526	.9290
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PHI

.000	-.0660	-.0370	-.0220
30.000	-.0190	-.0180	-.0190
60.000	-.0480	-.0240	.0020
90.000			-.0230
120.000	-.0650	-.0350	-.1110
135.000	-.0650	-.0870	-.0840
150.000	-.0810	-.2200	-.1460
165.000		-.2030	-.1780
180.000	-.0480		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBDT10) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4440	1.1540	.4100	.0550	-.1810	-.2300	-.2770	-.2570	-.2150	.0450	.0190	-.1170	-.1840	-.1360	-.0200
30.000			.5080	.1270	-.1350	-.1920	-.2460	-.2290	-.1260	-.1270	-.3150	-.2810	-.0980	-.0930	-.1070
60.000			.6630	.2490	-.0460	-.1030	-.1740	-.1580	.0940	-.1340	-.4280	-.2730	-.2050	-.1540	-.0010
90.000		1.4810	.8290	.3760	.0570	-.0100	-.0900	-.0760	.5940	-.1110	-.3910	-.1090	-.1480	-.1340	-.0510
120.000			.9250	.4710	.1290	.0580	-.0300	-.0150	.3500	.3850	.0640	.2340	.2230	.2240	.0170
135.000								-.0130		.4050		.1190		.1700	
150.000			.9200	.4710	.1230	.0520	-.0300	-.0200	.0110	.5030	.2990	.1240	.1910	.0840	.1320
165.000				.4270	.0930	.0290	-.0540	-.0400	-.0110	.6610	.2750		.0700		.0790
180.000	1.4440	1.4580	.8060	.3690	.0530	-.0100	-.0910	-.0760	-.0490	.7180	.0810	-.0410	-.0920	.1020	-.0250
270.000		1.1190													

X/LT .7449 .8526 .9290

PHI

.000	.0360	.0260	.0060
30.000	-.0490	-.0100	-.0040
60.000	-.0250	-.0850	-.0480
90.000			-.1950
120.000	.1090	.2360	.1150
135.000	.0550	.2900	.0990
150.000	.0270	.2710	.0910
165.000		.4650	.0600
180.000	-.1710		

MACH (1) = 1.555

BETAT (2) = -6.210

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4650	1.1630	.4140	.0530	-.1860	-.2300	-.2700	-.2470	-.1970	.0560	.0170	-.0990	-.1900	-.1390	-.0300
30.000			.4910	.1040	-.1510	-.2050	-.2530	-.2360	-.1260	-.1150	-.2850	-.2580	-.0940	-.0820	-.0890
60.000			.6270	.2030	-.0790	-.1290	-.1950	-.1810	.0550	-.1470	-.4360	-.3020	-.1930	-.1410	-.0220
90.000		1.4600	.7740	.3240	.0120	-.0490	-.1210	-.1130	.5680	-.1110	-.3830	-.1250	-.1690	.0220	-.0790
120.000			.8820	.4210	.0840	.0210	-.0610	-.0450	.3470	.4050	.0800	.2010	.1850	.1790	.0140
135.000								-.0370		.4720		.0080		.1370	
150.000			.9040	.4410	.1030	.0390	-.0410	-.0370	.0280	.6000	.2700	.1170	.1700	.0850	.0890

(RBT10)

BETAT (2) = -6.210

DEPENDENT VARIABLE CP

PHI			
.000	.0010	.0310	.0260
30.000	-.0880	-.0260	.0170
60.000	-.0260	-.0870	-.0510
90.000			-.1940
120.000	.0330	.1810	.0670
135.000	.0170	.2280	.0400
150.000	-.0200	.2200	.0340
165.000		.3970	.0230
180.000	-.1740		

$$\text{BETAT} (3) = -4.229$$

DEPENDENT VARIABLE CP

PHI			
.000	.0070	-.0100	-.0159
30.000	-.0540	-.0340	-.0200
60.000	-.0050	-.0400	-.0210
90.000			-.1260
120.000	-.0300	.1410	.0210
135.000	-.0320	.1760	-.0050
150.000	-.0530	.1790	-.0310

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO110)

MACH (1) = 1.555

BETAT (3) = -4.225

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2750 -.1030

180.000 -.1360

MACH (1) = 1.555

BETAT (4) = 3.650

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1096 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5030 1.1860 .4320 .0670 -.1710 -.2140 -.2580 -.2350 -.1720 .0710 .0590 -.0940 -.2030 -.1390 -.0030

30.000 .4210 .0540 -.1710 -.2180 -.2610 -.2350 -.0560 -.0560 -.0260 -.1390 -.1200 -.1250 -.0410

60.000 .4460 .0750 -.1600 -.1990 -.2570 -.2350 -.0510 -.0820 -.3990 -.1570 -.2060 -.0020 -.0540

90.000 1.2720 .5160 .1190 -.1290 -.1780 -.2390 -.2260 .3660 -.0790 -.1920 -.1800 -.1790 -.0560 -.1000

120.000 .6120 .2080 -.0670 -.1210 -.1860 -.1780 .1880 .4000 .1650 .0780 .0690 .1010 -.0690

135.000 .1490 .2900 .1290 .0370

150.000 .7460 .3130 .0050 -.0490 -.1230 -.1130 .1560 .3530 .1360 .0730 .1170 .0560 -.0600

165.000 .3510 .0400 -.0170 -.0950 -.0830 -.0620 .3710 .0600 .0610 -.0730

180.000 1.5030 1.5240 .8440 .3800 .0630 .0070 -.0750 -.0640 -.0360 .4600 .0640 .0690 .0470 .1740 -.0270

270.000 1.4230

X/LT .7449 .8526 .9290

PHI

.000 .0190 -.0120 -.0180

30.000 .0070 -.0140 -.0150

60.000 -.0090 -.0200 .0390

90.000 -.0320

120.000 -.1270 -.0600 -.1210

135.000 -.1270 -.0530 -.1770

150.000 -.1350 -.1090 -.1870

165.000 -.1420 -.1940

180.000 -.1220

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1937

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(R00T10)

MACH (1) = 1.555

BETAT (5) = 5.710

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4930	1.1780	.4350	.0680	-.1750	-.2240	-.2630	-.2430	-.1890	.0710	.0540	-.1070	-.2010	-.1280	-.0200
30.000			.4080	.0410	-.1860	-.2300	-.2650	-.2380	-.0440	-.0310	-.0160	-.1200	-.1280	-.1490	-.0380
60.000			.4210	.0430	-.1800	-.2160	-.2620	-.2380	-.0470	-.0460	-.3750	-.1650	-.1580	-.0320	-.0370
90.000		1.2140	.4760	.0790	-.1570	-.2010	-.2540	-.2420	.3420	-.0820	-.0780	-.1960	-.1110	-.0680	-.1900
120.000			.5720	.1620	-.1050	-.1480	-.2090	-.2050	.1430	.3710	.1650	.0670	.0160	.0900	-.0790
135.000								-.1740		.2590		.0950		.0500	
150.000			.7090	.2850	-.0230	-.0780	-.1490	-.1360	-.0640	.4550	.0700	.0340	.0790	.0800	-.0870
165.000				.3340	.0220	-.0380	-.1140	-.1010	-.0630	.5820	-.0010		.0030		-.0060
180.000	1.4930	1.5150	.8380	.3810	.0550	-.0020	-.0790	-.0660	-.0330	.6920	.0620	-.0010	-.0090	.1880	-.0180
270.000		1.4620													
X/LT	.7449	.8526	.9290												
PHI															
.000	.0010	.0100	.0180												
30.000	.0030	.0270	.0220												
60.000	.0110	.0240	.0290												
90.000			-.0420												
120.000	-.1460	-.0260	-.1130												
135.000	-.1450	-.1010	-.1240												
150.000	-.1790	-.2390	-.1240												
165.000		-.1740	-.2040												
180.000	-.1740														

MACH (1) = 1.555

BETAT (6) = 7.770

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP												
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4740	1.1620	.4210	.0560	-.1800	-.2290	-.2690	-.2510	-.2120	.0650	.0350	-.1240	-.1870	-.1250	-.0260
30.000			.3760	.0200	-.1970	-.2410	-.2770	-.2460	-.0240	-.0200	-.0340	-.1240	-.1630	-.1530	.0030
60.000			.3790	.0170	-.1980	-.2290	-.2700	-.2410	-.0470	-.0310	-.3430	-.1660	-.1230	-.0430	.0330
90.000		1.1660	.4170	.0410	-.1840	-.2180	-.2680	-.2500	.3300	-.0870	-.0540	-.2190	-.0980	-.0500	-.0630
120.000			.5020	.1160	-.1360	-.1760	-.2320	-.2150	.1110	.3370	.1810	.0550	.0090	.0900	-.0950
135.000								-.1940		.4040		.0690		.0390	
150.000			.6550	.2420	-.0480	-.0990	-.1680	-.1570	-.0780	.4050	.0310	-.0270	.0240	.0710	-.1300
165.000				.3100	.0060	-.0510	-.1240	-.1170	-.0860	.5850	-.0410		-.0420		-.1290
180.000	1.4740	1.4900	.8190	.3690	.0520	-.0060	-.0840	-.0700	-.0430	.7320	.0710	-.0460	-.1090	.1120	-.0230
270.000		1.4780													
X/LT	.7449	.8526	.9290												

PHI

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RBOT10)

MACH (1) = 1.555

BETAT (6) = 7.770

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0370	.0230	.0160
30.000	.0310	-.0060	-.0180
60.000	.0440	-.0040	-.0150
90.000			-.0570
120.000	-.1030	-.0250	-.1480
135.000	-.1380	-.1320	-.1950
150.000	-.2210	-.2010	-.1580
165.000		-.2720	-.2360
180.000	-.1820		

MACH (2) = 2.000

BETAT (1) = -8.390

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6572

PHI

.000	1.5890	1.2610	.4020	.0880	-.1200	-.1550	-.1700	-.1660	-.1460	-.0110	.0610	-.0180	-.1010	-.1100	-.0380
30.000			.5000	.1500	-.0720	-.1180	-.1400	-.1320	-.1190	-.0600	-.1800	-.2340	-.1520	-.0850	-.0760
60.000			.6640	.2650	.0120	-.0190	-.0730	-.0660	.0340	.0410	-.2610	-.2220	-.1340	-.0960	-.0390
90.000		1.5830	.8310	.3970	.1020	.0610	-.0010	.0060	.1400	.1450	-.1990	-.1800	-.0190	-.0170	-.0360
120.000			.9220	.4840	.1600	.1150	.0440	.0490	.1190	.5620	.0430	.1520	.2830	.2850	.1530
135.000								.0530		.3260		.2180		.2970	
150.000			.9300	.4840	.1610	.1150	.0430	.0420	.0920	.2640	.5450	.2660	.1720	.2200	.1080
165.000				.4450	.1360	.0940	.0240	.0250	.0450	.4170	.4490	.0990			.0930
180.000	1.5890	1.5710	.8220	.3910	.0990	.0600	-.0070	-.0050	.0040	.3330	.2680	.1420	-.0090	-.0200	-.0210
270.000		1.2370													

X/LT .7449 .8526 .9290

PHI

.000	-.0370	-.0090	-.0070
30.000	-.1010	-.1010	-.0740
60.000	-.0220	-.0780	-.0520
90.000			.0160
120.000	.0860	.2130	.2330
135.000	.0850	.2880	.1150
150.000	.1040	.2720	.1690
165.000		.6070	.0740
180.000	-.0050		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBT010)

MACH (2) = 2.000

BETAT (2) = -6.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6020	1.2660	.4030	.0920	-.1060	-.1440	-.1630	-.1550	-.1270	-.0320	.0600	.0000	-.0870	-.1120	-.0450
30.000			.4800	.1380	-.0670	-.1120	-.1400	-.1300	-.1170	-.0540	-.1660	-.2240	-.1380	-.0610	-.0610
60.000			.6170	.2370	.0040	-.0290	-.0840	-.0700	.0160	.0270	-.2660	-.2460	-.1450	-.1820	-.0210
90.000		1.5520	.7710	.3570	.0850	.0410	-.0120	-.0020	.4320	.1360	-.2010	-.1710	-.0310	-.0330	-.0550
120.000			.8790	.4370	.1530	.1000	.0300	.0420	.1070	.5700	.0430	.1260	.2710	.2360	.1290
135.000								.0440		.1950		.1660		.2440	
150.000			.9100	.4610	.1560	.1090	.0430	.0420	.0900	.2680	.4850	.2430	.1620	.1870	.0750
165.000				.4440	.1370	.0900	.0260	.0310	.0510	.3550	.4200		.0990		.0760
180.000	1.6020	1.5870	.8350	.4030	.1070	.0650	-.0010	.0060	.0170	.3440	.2690	.1850	.0190	-.0080	.0500
270.000		1.2830													

X/LT .7449 .8526 .9290

PHI

.000	-.0200	-.0030	-.0010
30.000	-.0940	-.0650	-.0340
60.000	-.0250	-.0510	-.0470
90.000			.0280
120.000	.0490	.1440	.1840
135.000	.0480	.2550	.0820
150.000	.0980	.2860	.1200
165.000		.5210	.0140
180.000	.0100		

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6140	1.2700	.4180	.1120	-.0930	-.1320	-.1560	-.1470	-.1180	.0230	.0860	.0020	-.0810	-.1300	-.0580
30.000			.4810	.1440	-.0620	-.1080	-.1390	-.1330	-.1190	-.0460	-.1460	-.2020	-.1370	-.0640	-.0550
60.000			.5870	.2310	-.0080	-.0440	-.0970	-.0910	-.0080	.0180	-.2710	-.2530	-.2130	-.1520	-.0030
90.000		1.5110	.7220	.3400	.0670	.0240	-.0360	-.0330	.4040	.1240	-.2040	-.1070	-.0520	-.0640	-.0690
120.000			.8270	.4230	.1320	.0830	.0150	.0200	.0490	.5770	.0490	.1070	.2350	.1780	.1020
135.000								.0340		.1760		.1330		.2110	
150.000			.8800	.4550	.1550	.1040	.0340	.0380	.0520	.3610	.3870	.1800	.1420	.1760	.1060
165.000				.4420	.1460	.0960	.0280	.0310	.0470	.3880	.4120		.0880		.0950
180.000	1.6140	1.5990	.8450	.4150	.1230	.0770	.0080	.0150	.0300	.3520	.2780	.2520	.0430	.0760	.0690
270.000		1.3340													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBO110)

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0040	.0060	-.0040
30.000	-.0640	-.0420	-.0220
60.000	-.0160	-.0540	-.0430
90.000			.0310
120.000	.0190	.0810	.1110
135.000	.0450	.1930	.0330
150.000	.0850	.2450	.0480
165.000		.3950	-.0390
180.000	.0080		

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6540	1.3020	.4460	.1180	-.0960	-.1350	-.1500	-.1420	-.1100	.0200	.0880	.0160	-.0640	-.1240	-.0610
30.000			.4690	.1170	-.0880	-.1320	-.1510	-.1400	-.1170	-.0180	-.0710	-.1180	-.1230	-.0560	-.0540
60.000			.5360	.1610	-.0610	-.0840	-.1320	-.1270	-.0210	.0010	-.2750	-.2580	-.2800	-.1040	-.0380
90.000		1.4760	.6440	.2370	-.0080	-.0610	-.0960	-.0530	.3100	.1200	.1050	-.0400	-.0780	-.1050	.0420
120.000			.7550	.3290	.0550	.0180	-.0420	-.0440	.0200	.4640	.1980	.0800	.1830	.1310	.0740
135.000								-.0200		.2370		.0010		.1730	
150.000			.8520	.4140	.1100	.0660	.0000	.0000	.0120	.3600	.3490	.1100	.0920	.1590	.0720
165.000				.4280	.1240	.0820	.0150	.0130	.0240	.3580	.3220		.1030		.0800
180.000	1.6540	1.6380	.8790	.4280	.1290	.0860	.0160	.0200	.0250	.3680	.2430	.3000	.1430	.0930	.0900
270.000		1.4370													

X/LT .7449 .8526 .9290

PHI

.000	.0010	.0180	.0080
30.000	-.0310	-.0130	-.0100
60.000	-.0200	-.0180	-.0100
90.000			.0120
120.000	-.0020	.0070	.0300
135.000	.0130	.0730	-.0420
150.000	.0270	.1380	-.0710
165.000		.1830	-.1310
180.000	.0060		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1941

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO110)

MACH (2) = 2.000

BETAT (5) = 3.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6370	1.2840	.4280	.1090	-.1020	-.1390	-.1600	-.1510	-.1200	-.0100	.0860	.0080	-.0790	-.1260	-.0600
30.000			.4200	.0850	-.1060	-.1460	-.1640	-.1520	-.1210	.0160	-.0300	-.0380	-.1010	-.0970	-.0830
60.000			.4440	.1000	-.0990	-.1190	-.1590	-.1500	-.0390	.0300	-.2600	-.2410	-.2330	-.0940	.0150
90.000		1.3670	.5120	.1480	-.0700	-.0950	-.1370	-.1340	.2880	.1310	-.1790	-.0180	-.1080	-.1250	-.0430
120.000			.6180	.2340	-.0140	-.0450	-.0970	-.0920	-.0370	.1510	.2740	.0640	.1290	.0830	.0240
135.000								-.0700		.1080		-.0070		.1010	
150.000			.7560	.3420	.0600	.0180	-.0430	-.0390	-.0340	.3120	.2660	.1080	.0510	.0820	.0220
165.000				.3860	.0930	.0530	-.0150	-.0150	-.0060	.3120	.2460		.0610		.0300
180.000	1.6370	1.6240	.8550	.4180	.1150	.0740	.0050	.0080	.0160	.3320	.2690	.2580	.0480	.0790	.0630
270.000		1.5160													

X/LT .7449 .8526 .9290

PHI			
.000	-.0100	-.0040	-.0170
30.000	-.0220	-.0030	-.0070
60.000	-.0260	-.0270	-.0120
90.000			-.0300
120.000	-.0380	-.0070	-.0200
135.000	-.0210	-.0070	-.0820
150.000	-.0210	-.0570	-.1500
165.000		-.0380	-.1560
180.000	-.0020		

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6210	1.2650	.4180	.0970	-.0990	-.1390	-.1630	-.1570	-.1310	-.0500	.0710	-.0110	-.0910	-.1170	-.0540
30.000			.3880	.0740	-.1100	-.1480	-.1690	-.1580	-.1220	.0150	-.0530	-.0180	-.0900	-.1100	-.0750
60.000			.4000	.0740	-.1090	-.1310	-.1670	-.1560	-.0330	.0350	-.2450	-.2160	-.2020	-.0940	-.0090
90.000		1.3150	.4500	.1110	-.0880	-.1120	-.1530	-.1490	.1830	.1360	-.1660	.0000	-.1170	-.0990	-.0420
120.000			.5560	.1880	-.0340	-.0690	-.1170	-.1160	.0300	.0170	.2910	.1320	.1050	.0880	.0030
135.000								-.0900		.1860		-.0050		.0670	
150.000			.7050	.3070	.0440	.0010	-.0600	-.0560	-.0520	.3060	.2290	.1230	.0410	.0480	.0080
165.000				.3590	.0820	.0360	-.0250	-.0250	-.0130	.3010	.1920		.0080		.0140
180.000	1.6210	1.6120	.8420	.4080	.1170	.0690	.0020	.0060	.0220	.2970	.2590	.1970	.0260	.0200	.0490
270.000		1.5510													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 Q2A + 53 + T9 EXTERNAL TANK

(R80T10)

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI	.000	.0340	.0250	.0290
.000	-.0340	-.0250	-.0290	
30.000	-.0160	-.0090	-.0170	
60.000	-.0370	-.0320	-.0190	
90.000			-.0400	
120.000	-.0480	-.0170	-.0680	
135.000	-.0380	-.0390	-.1140	
150.000	-.0530	-.1350	-.1360	
165.000		-.1730	-.2040	
180.000	-.0030			

MACH (2) = 2.000

BETAT (7) = 8.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI	.000	1.5950	1.2470	.4040	.0960	-.1140	-.1500	-.1670	-.1620	-.1290	-.0670	.0330	-.0380	-.1040	-.1100	-.0540
.000	1.5950	1.2470	.4040	.0960	-.1140	-.1500	-.1670	-.1620	-.1290	-.0670	.0330	-.0380	-.1040	-.1100	-.0540	
30.000			.3610	.0480	-.1290	-.1640	-.1770	-.1630	-.1210	.0200	-.0810	-.0530	-.1050	-.1410	-.0750	
60.000			.3610	.0480	-.1280	-.1410	-.1750	-.1650	-.0180	.0480	-.2210	-.1700	-.1870	-.1040	-.0440	
90.000		1.2540	.4030	.0730	-.1170	-.1350	-.1730	-.1640	.1340	.1330	-.1420	-.0100	-.1420	-.0910	-.0040	
120.000			.4990	.1460	-.0740	-.0950	-.1380	-.1100	-.0300	-.0350	.2120	.0780	.0660	.0410	-.0100	
135.000								-.1070		.2050		.0570		.0400		
150.000			.6610	.2710	.0100	-.0240	-.0770	-.0720	-.0260	.2490	.1680	.0810	.0100	.0200	-.0140	
165.000				.3350	.0580	.0200	-.0410	-.0330	-.0220	.2560	.1530		-.0800		-.0030	
180.000	1.5950	1.5870	.8260	.3960	.1010	.0600	-.0030	.0040	.0120	.3200	.2630	.1370	-.0110	-.0150	-.0210	
270.000		1.5660														

X/LT .7449 .8526 .9290

PHI	.000	-.0580	-.0350	-.0330
.000	-.0580	-.0350	-.0330	
30.000	-.0210	-.0270	-.0290	
60.000	-.0390	-.0260	-.0130	
90.000			-.0370	
120.000	-.0590	-.0200	-.1110	
135.000	-.0590	-.0830	-.1150	
150.000	-.0930	-.2270	-.1390	
165.000		-.2210	-.1950	
180.000	.0000			

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1943

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBT11) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.420

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4470	1.1520	.4050	.0530	-.1910	-.2390	-.2780	-.2610	-.2210	.0400	.0170	-.1230	-.1880	-.1390	-.0080
30.000			.5060	.1220	-.1420	-.1960	-.2460	-.2320	-.1370	-.1350	-.3250	-.2840	-.1070	-.1040	-.1180
60.000			.6720	.2470	-.0470	-.1000	-.1730	-.1590	.0970	-.1390	-.4300	-.2760	-.2230	-.1440	-.0060
90.000		1.4830	.8350	.3850	.0600	-.0050	-.0870	-.0720	.6000	-.1100	-.3960	-.1140	-.1510	-.1400	-.0560
120.000			.9360	.4770	.1270	.0620	-.0230	-.0110	.3590	.3850	.0670	.2410	.2250	.2330	.0260
135.000								-.0080		.4060		.1220		.1730	
150.000			.9270	.4730	.1250	.0560	-.0250	-.0160	.0210	.5240	.3020	.1260	.1980	.0870	.1010
165.000				.4300	.0950	.0310	-.0500	-.0390	-.0090	.6790	.2750		.0770		.0790
180.000	1.4470	1.4620	.8140	.3700	.0480	-.0090	-.0880	-.0750	-.0480	.7340	.0860	-.0520	-.1090	.0860	-.0270
270.000		1.1180													

X/LT .7449 .8526 .9290

PHI

.000	.0360	.0200	.0020
30.000	-.0450	-.0140	-.0070
60.000	-.0320	-.0950	-.0580
90.000			-.1870
120.000	.1120	.2470	.1290
135.000	.0600	.3040	.0950
150.000	.0350	.2860	.0840
165.000		.4730	.0400
180.000	-.1690		

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4660	1.1580	.4100	.0460	-.1880	-.2340	-.2720	-.2500	-.1980	.0520	.0170	-.1010	-.1910	-.1420	-.0290
30.000			.4850	.1040	-.1540	-.2080	-.2560	-.2400	-.1250	-.1240	-.2940	-.2640	-.0990	-.0890	-.0890
60.000			.6260	.2040	-.0790	-.1290	-.1970	-.1840	.0530	-.1510	-.4340	-.3080	-.2140	-.1370	-.0230
90.000		1.4650	.7790	.3240	.0150	-.0460	-.1240	-.1070	.5740	-.1130	-.3910	-.1300	-.1690	.0000	-.0760
120.000			.8870	.4280	.0870	.0250	-.0590	-.0440	.3460	.4080	.0830	.2060	.1870	.1880	.0220
135.000								-.0320		.4660		.1000		.1420	
150.000			.9110	.4500	.1060	.0430	-.0400	-.0310	.0320	.6050	.2730	.1160	.1680	.0860	.0950

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RBOT11)

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.4220	.0880	.0280	-.0520	-.0430	-.0030	.6370	.2330		.0660		.0480
180.000	1.4660	1.4880	.8260	.3760	.0560	-.0010	-.0810	-.0690	-.0410	.6830	.0760	-.0040	-.0160	.1830	-.0150
270.000		1.1680													

X/LT .7449 .8526 .9290

PHI

.000	.0100	.0310	.0260
30.000	-.0890	-.0260	.0180
60.000	-.0290	-.0910	-.0580
90.000			-.1980
120.000	.0410	.1870	.0760
135.000	.0210	.2320	.0370
150.000	-.0150	.2250	.0400
165.000		.4010	-.0020
180.000	-.1760		

MACH (1) = 1.555

BETAT (3) = -4.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4940	1.1780	.4190	.0510	-.1810	-.2270	-.2720	-.2480	-.1930	.0680	.0300	-.0960	-.2000	-.1460	-.0170
30.000			.4750	.0940	-.1560	-.2020	-.2550	-.2390	-.1260	-.1140	-.2460	-.2460	-.0940	-.0760	-.0800
60.000			.5770	.1680	-.1020	-.1450	-.2120	-.1970	.0280	-.1530	-.4600	-.3300	-.1490	-.1220	-.0400
90.000		1.4430	.7160	.2760	-.0130	-.0740	-.1500	-.1390	.5430	-.1120	-.3750	-.1430	-.1810	.0180	-.1870
120.000			.8300	.3760	.0470	-.0060	-.0840	-.0760	.1660	.4350	.0940	.1530	.1380	.1540	.0200
135.000								-.0570	.5380			.1060		.1200	
150.000			.8860	.4280	.0890	.0170	-.0620	-.0460	.0200	.5780	.2520	.1000	.1740	.1580	.0470
165.000				.4170	.0830	.0200	-.0630	-.0530	.0040	.6360	.1960		.1310		.0240
180.000	1.4940	1.5220	.8500	.3890	.0650	.0010	-.0770	-.0690	-.0180	.6630	.0650	.0400	.0580	.1740	-.0320
270.000		1.2390													

X/LT .7449 .8526 .9290

PHI

.000	.0120	-.0140	-.0170
30.000	-.0520	-.0360	-.0210
60.000	-.0050	-.0470	-.0240
90.000			-.1300
120.000	-.0240	.1420	.0240
135.000	-.0300	.1780	-.0090
150.000	-.0530	.1840	-.0480

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1945

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBOT11)

MACH (1) = 1.555

BETAT (3) = -4.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2760 -.0690

180.000 -.1390

MACH (1) = 1.555

BETAT (4) = -.180

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5080 1.1860 .4270 .0650 -.1780 -.2250 -.2590 -.2350 -.1760 .0760 .0640 -.0800 -.1980 -.1330 -.0230

30.000 .4440 .0710 -.1710 -.2210 -.2570 -.2360 -.0900 -.0830 -.1260 -.1980 -.0870 -.1220 -.0520

60.000 .5040 .1090 -.1420 -.1770 -.2390 -.2200 -.0010 -.1270 -.4430 -.2760 -.1910 -.0020 -.0510

90.000 1.3530 .6060 .1900 -.0910 -.1340 -.1990 -.1820 .5030 -.0920 -.3110 -.1560 -.2190 -.0140 -.2080

120.000 .7130 .2840 -.0230 -.0720 -.1390 -.1270 .2270 .5020 .1260 .0890 .0890 .1450 -.0380

135.000 .3460 .0950 .0910

150.000 .8200 .3670 .0400 -.0160 -.0910 -.0770 -.0490 .4140 .2160 .1140 .2010 .1080 -.0120

165.000 .3910 .0570 .0030 -.0760 -.0630 -.0330 .4210 .1490 .1630 -.0250

180.000 1.5080 1.5330 .8570 .3920 .0640 .0080 -.0730 -.0580 -.0280 .4880 .0640 .1410 .0750 .1930 -.0350

270.000 1.3450

X/LT .7449 .8526 .9290

PHI

.000 .0370 -.0030 -.0050

30.000 .0050 -.0140 -.0060

60.000 -.0020 -.0170 .0070

90.000 -.0140

120.000 -.0960 .0720 -.0530

135.000 -.0930 .1030 -.0840

150.000 -.0870 .1240 -.1670

165.000 .1400 -.1970

180.000 -.0780

AMES 97-707 1A9 C2A + S3 + T9-EXTERNAL TANK

(RDOT11)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4990	1.1790	.4310	.0620	-.1730	-.2200	-.2600	-.2380	-.1780	.0690	.0590	-.0980	-.2070	-.1470	-.0060
30.000			.4190	.0520	-.1750	-.2240	-.2650	-.2370	-.0520	-.0450	-.0270	-.1350	-.1280	-.1370	-.0420
60.000			.4350	.0680	-.1670	-.2070	-.2640	-.2380	-.0570	-.0820	-.4010	-.1590	-.2020	-.0050	-.0500
90.000		1.2600	.5030	.1170	-.1380	-.1870	-.2450	-.2310	.3510	-.0790	-.2060	-.1820	-.1940	-.0600	-.1110
120.000			.6060	.2010	-.0790	-.1300	-.1940	-.1840	.1810	.3790	.1550	.0810	.0550	.1000	-.0640
135.000								-.1540		.2900		.1330		.0560	
150.000			.7380	.3100	.0000	-.0550	-.1280	-.1180	.1460	.3380	.1210	.0570	.1090	.0660	-.0650
165.000				.3510	.0360	-.0200	-.0960	-.0870	-.0640	.3750	.0410		.0350		-.0800
180.000	1.4990	1.5220	.8470	.3850	.0630	.0050	-.0750	-.0610	-.0380	.5130	.0540	.0500	.0270	.1800	-.0270
270.000		1.4290													

X/LT .7449 .8526 .9290

PHI

.000	.0170	-.0180	-.0220
30.000	.0070	-.0170	.0310
60.000	-.0120	-.0250	.0500
90.000			-.0230
120.000	-.1340	-.0160	-.1230
135.000	-.1330	-.0720	-.1850
150.000	-.1480	-.1440	-.2200
165.000		-.1690	-.1920
180.000	-.1300		

MACH (1) = 1.555

BETAT (6) = 6.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4870	1.1710	.4310	.0650	-.1820	-.2280	-.2650	-.2470	-.1970	.0700	.0490	-.1150	-.2000	-.1340	-.0240
30.000			.4050	.0350	-.1920	-.2350	-.2660	-.2410	-.0390	-.0330	-.0140	-.1170	-.1370	-.1610	-.0390
60.000			.4150	.0290	-.1890	-.2160	-.2670	-.2410	-.0480	-.0440	-.3750	-.1790	-.1590	-.0430	-.0400
90.000		1.2000	.4650	.0660	-.1690	-.2050	-.2600	-.2410	.3330	-.0830	-.0910	-.2130	-.1280	-.0730	-.2210
120.000			.5530	.1500	-.1150	-.1540	-.2160	-.2090	.1390	.3760	.1680	.0650	.0150	.0890	-.0770
135.000								-.1790		.3560		.0930		.0440	
150.000			.6990	.2750	-.0320	-.0810	-.1490	-.1380	-.0690	.4490	.0630	.0140	.0670	.0820	-.0940
165.000				.3320	.0150	-.0410	-.1150	-.0990	-.0690	.5990	-.0060		-.0140		-.1010
180.000	1.4870	1.5050	.8320	.3820	.0540	-.0030	-.0820	-.0640	-.0350	.7080	.0600	-.0130	-.0380	.2000	-.0160
270.000		1.4590													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1947

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RBOT11)

MACH (1) = 1.555

BETAT (6) = 6.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0040	.0150	.0170
30.000	.0390	.0230	.0150
60.000	.0440	.0190	.0210
90.000			-.0470
120.000	-.1500	-.0290	-.1020
135.000	-.1590	-.1070	-.1220
150.000	-.1940	-.2620	-.1300
165.000		-.1880	-.2090
180.000	-.1800		

MACH (1) = 1.555

BETAT (7) = 8.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4780	1.1650	.4120	.0520	-.1850	-.2340	-.2760	-.2580	-.2210	.0660	.0280	-.1320	-.1880	-.1280	-.0080
30.000			.3660	.0130	-.2040	-.2490	-.2810	-.2490	-.0250	-.0220	-.0520	-.1310	-.1790	-.1490	.0060
60.000			.3670	.0070	-.2040	-.2290	-.2730	-.2490	-.0500	-.0200	-.3360	-.1940	-.1050	-.0080	.0330
90.000		1.1540	.4110	.0280	-.1900	-.2230	-.2730	-.2550	.3220	-.0840	-.0720	-.2280	-.0910	-.0310	-.0600
120.000			.4930	.1000	-.1420	-.1830	-.2430	-.2190	.1130	.3220	.1760	.0500	.0020	.0920	-.0910
135.000								-.2000		.3990		.0590		.0380	
150.000			.6510	.2320	-.0570	-.1070	-.1720	-.1610	-.0960	.3980	.0230	-.0420	.0070	.0720	-.1340
165.000				.3030	-.0030	-.0590	-.1320	-.1180	-.0970	.5890	-.0470		-.0600		-.1310
180.000	1.4780	1.4950	.8130	.3680	.0440	-.0080	-.0880	-.0740	-.0470	.7400	.0780	-.0580	-.1290	.0850	-.0200
270.000		1.4960													

X/LT .7449 .8526 .9290

PHI

.000	.0370	.0180	.0090
30.000	.0210	-.0180	-.0300
60.000	.0350	-.0090	-.0010
90.000			-.0620
120.000	-.0980	-.0340	-.1660
135.000	-.1120	-.1460	-.2160
150.000	-.1780	-.2410	-.1560
165.000		-.2800	-.2390
180.000	-.1760		

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(R80T11)

MACH (2) = 2.000

BETAT (1) = -8.390

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5920	1.2620	.4000	.0920	-.1110	-.1480	-.1730	-.1690	-.1460	-.0450	.0700	-.0230	-.0940	-.0970	-.0400
30.000			.5010	.1540	-.0680	-.1120	-.1450	-.1380	-.1250	-.0250	-.1800	-.2340	-.1400	-.0760	-.0720
60.000			.6630	.2690	.0140	-.0260	-.0820	-.0770	.0540	.0370	-.2730	-.2300	-.1470	-.0820	-.0510
90.000		1.5860	.8310	.3980	.1020	.0530	-.0120	-.0030	.4230	.1430	-.2050	-.1730	-.0180	-.0240	-.0370
120.000			.9250	.4880	.1650	.1090	.0380	.0430	.1050	.5590	.0380	.1550	.2860	.2790	.1570
135.000								.0480		.2430		.2090		.2940	
150.000			.9290	.4830	.1660	.1110	.0390	.0410	.0850	.2400	.5370	.2680	.1750	.2130	.1020
165.000				.4450	.1410	.0920	.0200	.0250	.0300	.3700	.4330		.1040		.0940
180.000	1.5920	1.5710	.8230	.3930	.1030	.0590	-.0090	-.0040	.0010	.3080	.2640	.1540	.0020	-.0180	-.0170
270.000		1.2370													

X/LT .7449 .8526 .9290

PHI

.000	-.0390	-.0080	-.0050
30.000	-.0990	-.0960	-.0770
60.000	-.0130	-.0760	-.0410
90.000			.0180
120.000	.0910	.2340	.2490
135.000	.0830	.2940	.1320
150.000	.1090	.2750	.2080
165.000		.6110	.0720
180.000	.0110		

MACH (2) = 2.000

BETAT (2) = -6.340

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6000	1.2670	.4050	.0940	-.1200	-.1560	-.1680	-.1610	-.1310	-.0510	.0910	-.0020	-.0880	-.1100	-.0420
30.000			.4800	.1260	-.0830	-.1280	-.1470	-.1380	-.1160	-.0040	-.1650	-.2240	-.1300	-.0610	-.0570
60.000			.6180	.2210	-.0150	-.0420	-.0910	-.0870	.0210	.0300	-.2760	-.2410	-.1320	-.1840	-.0130
90.000		1.5480	.7700	.3400	.0660	.0280	-.0300	-.0200	.4190	.1360	-.2030	-.1630	-.0350	-.0380	-.0510
120.000			.8780	.4270	.1270	.0890	.0200	.0270	.0890	.5740	.0470	.1260	.2680	.2310	.1300
135.000								.0370		.1690		.1500		.2420	
150.000			.9090	.4520	.1410	.0960	.0340	.0380	.0830	.2340	.4780	.2200	.1710	.1910	.0770
165.000				.4300	.1250	.0840	.0170	.0260	.0530	.3460	.4150		.1040		.1180
180.000	1.6000	1.5860	.8320	.3980	.0960	.0610	-.0050	.0040	.0200	.3500	.2750	.1810	.0170	.0070	.0560
270.000		1.2830													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1949

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO111)

MACH (2) = 2.000

BETAT (2) = -6.340

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0160	-.0040	.0000
30.000	-.0920	-.0680	-.0350
60.000	-.0180	-.0600	-.0430
90.000			.0170
120.000	.0560	.1710	.1990
135.000	.0680	.2650	.0910
150.000	.1080	.2880	.1460
165.000		.5150	.0010
180.000	.0060		

MACH (2) = 2.000

BETAT (3) = -4.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6180	1.2720	.4120	.0990	-.0990	-.1390	-.1640	-.1520	-.1150	-.0100	.0920	.0160	-.0760	-.1230	-.0560
30.000			.4650	.1320	-.0750	-.1160	-.1430	-.1340	-.1070	-.0210	-.1430	-.1960	-.1260	-.0590	-.0550
60.000			.5750	.2120	-.0200	-.0480	-.1010	-.0990	-.0460	.0250	-.2790	-.2460	-.2010	-.1400	.0000
90.000		1.5150	.7010	.3120	.0550	.0180	-.0450	-.0390	.4000	.1250	-.2050	-.0960	-.0480	-.0580	-.0660
120.000			.8140	.3980	.1150	.0680	.0030	.0140	.0740	.5840	.0500	.1130	.2460	.1790	.1050
135.000							.0270		.1290			.1350		.2160	
150.000			.8720	.4430	.1380	.0880	.0210	.0310	.0840	.2570	.3990	.1970	.1480	.1770	.1020
165.000				.4330	.1350	.0850	.0150	.0240	.0660	.3420	.3950		.0890		.0980
180.000	1.6180	1.6050	.8440	.4070	.1160	.0710	.0010	.0110	.0400	.3310	.2620	.2450	.0590	.0740	.0710
270.000		1.3390													

X/LT .7449 .8526 .9290

PHI

.000	.0040	.0110	-.0010
30.000	-.0650	-.0360	-.0180
60.000	-.0110	-.0530	-.0340
90.000			.0510
120.000	.0270	.1020	.1320
135.000	.0490	.2090	.0550
150.000	.0850	.2570	.0820
165.000		.3880	-.0420
180.000	.0110		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(R00T11)

MACH (2) = 2.000

BETAT (4) = -.180

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6320	1.2840	.4360	.1140	-.0870	-.1270	-.1550	-.1430	-.1080	-.0120	.0860	.0290	-.0640	-.1250	-.0610
30.000			.4540	.1190	-.0800	-.1210	-.1520	-.1410	-.1040	-.0130	-.0700	-.1180	-.1230	-.0550	-.0510
60.000			.5180	.1600	-.0550	-.0870	-.1290	-.1240	-.0990	.0220	-.2760	-.2580	-.2740	-.0960	-.0360
90.000		1.4490	.6210	.2340	-.0050	-.0430	-.0940	-.0880	.3620	.1200	-.1990	-.0300	-.0750	-.0990	.0360
120.000			.7300	.3240	.0590	.0120	-.0470	-.0400	.0160	.5820	.1890	.0050	.1890	.1430	.0840
135.000								-.0190		.1750		.0000		.1750	
150.000			.8320	.4060	.1110	.0620	-.0030	.0040	.0080	.3520	.3630	.1230	.0990	.1600	.0760
165.000				.4220	.1240	.0740	.0100	.0160	.0200	.3520	.3310		.1030		.0700
180.000	1.6320	1.6190	.8640	.4230	.1260	.0790	.0070	.0160	.0260	.3640	.2460	.3020	.1390	.0930	.0890
270.000		1.4290													

X/LT .7449 .8526 .9290

PHI

.000	.0020	.0220	.0110
30.000	-.0300	-.0070	-.0080
60.000	-.0150	-.0210	-.0040
90.000			.0270
120.000	.0020	.0160	.0360
135.000	.0170	.0910	-.0260
150.000	.0360	.1430	-.0760
165.000		.1840	-.1440
180.000	.0120		

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6370	1.2840	.4350	.1140	-.1020	-.1410	-.1560	-.1480	-.1130	-.0220	.0840	.0180	-.0700	-.1210	-.0600
30.000			.4200	.0870	-.1060	-.1450	-.1590	-.1480	-.1120	.0310	-.0150	-.0460	-.0960	-.0890	-.0790
60.000			.4520	.1040	-.0970	-.1130	-.1510	-.1430	-.0980	.0410	-.2570	-.2430	-.2320	-.0870	.0170
90.000		1.3660	.5180	.1510	-.0650	-.0870	-.1320	-.1270	.2980	.1370	-.1790	-.0080	-.1010	-.1150	-.0420
120.000			.6220	.2370	-.0130	-.0410	-.0880	-.0830	-.0130	.1740	.2770	.0730	.1400	.0900	.0270
135.000								-.0570		.1130		.0030		.1070	
150.000			.7540	.3460	.0580	.0200	-.0360	-.0300	-.0210	.3240	.2760	.1140	.0640	.0890	.0200
165.000				.3860	.0900	.0520	-.0110	-.0080	.0020	.3230	.2550		.0700		.0360
180.000	1.6370	1.6240	.8610	.4150	.1190	.0690	.0050	.0130	.0230	.3370	.2710	.2620	.0590	.0830	.0740
270.000		1.5200													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1951

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO111)

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0060	-.0010	-.0140
30.000	-.0190	-.0020	-.0050
60.000	-.0250	-.0230	-.0100
90.000			-.0270
120.000	-.0350	-.0020	-.0140
135.000	-.0180	-.0040	-.0750
150.000	-.0170	-.0470	-.1530
165.000		-.0350	-.2250
180.000	.0050		

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6190	1.2660	.4240	.1110	-.0890	-.1290	-.1610	-.1540	-.1260	-.0610	.0640	-.0060	-.0840	-.1150	-.0540
30.000			.3990	.0830	-.1000	-.1390	-.1660	-.1540	-.1170	.0230	-.0540	-.0220	-.0940	-.1160	-.0790
60.000			.4080	.0880	-.0970	-.1250	-.1630	-.1520	-.0780	.0400	-.2450	-.2120	-.2060	-.0950	-.0110
90.000		1.3140	.4620	.1270	-.0740	-.1080	-.1490	-.1430	.1930	.1410	-.1700	.0040	-.1140	-.1000	-.0500
120.000			.5610	.1990	-.0230	-.0580	-.1100	-.1080	.0460	.0220	.2940	.1390	.1070	.0840	.0030
135.000								-.0810		.2060		.0030		.0710	
150.000			.7100	.3170	.0520	.0020	-.0530	-.0470	-.0440	.3050	.2340	.1280	.0490	.0550	.0090
165.000				.3660	.0890	.0390	-.0240	-.0190	-.0070	.3150	.2020		.0240		.0180
180.000	1.6190	1.6090	.8440	.4130	.1230	.0710	.0030	.0090	.0300	.3100	.2590	.2070	.0300	.0300	.0640
270.000		1.5480													

X/LT .7449 .8526 .9290

PHI

.000	-.0350	-.0200	-.0260
30.000	-.0150	-.0060	-.0130
60.000	-.0390	-.0270	-.0150
90.000			-.0380
120.000	-.0490	-.0110	-.0630
135.000	-.0360	-.0360	-.1060
150.000	-.0490	-.1300	-.1900
165.000		-.1580	-.2050
180.000	.0040		

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT11)

MACH (2) = 2.000

BETAT (7) = 8.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6050	1.2520	.4080	.1000	-.1080	-.1460	-.1630	-.1580	-.1270	-.0720	.0340	-.0320	-.0970	-.1060	-.0510
30.000			.3640	.0570	-.1240	-.1600	-.1720	-.1600	-.1180	.0210	-.0700	-.0540	-.1100	-.1390	-.0740
60.000			.3640	.0560	-.1250	-.1370	-.1720	-.1610	-.0210	.0560	-.2240	-.1710	-.1860	-.1110	-.0410
90.000		1.2640	.4130	.0780	-.1100	-.1280	-.1670	-.1500	.1500	.1390	-.1500	-.0040	-.1370	-.0880	-.0070
120.000			.5050	.1550	-.0670	-.0880	-.1340	-.1090	-.0230	-.0190	.2250	.0850	.0720	.0480	-.0060
135.000								-.1020	.2220			.0610		.0490	
150.000			.6610	.2820	.0160	-.0170	-.0730	-.0690	-.0230	.2600	.1760	.0950	.0190	.0280	-.0100
165.000				.3440	.0670	.0250	-.0360	-.0320	-.0200	.2830	.1590		-.0700		.0060
180.000	1.6050	1.5930	.8300	.4020	.1000	.0660	.0010	.0070	.0150	.3460	.2650	.1490	-.0050	-.0120	-.0180
270.000		1.5720													

X/LT	.7449	.8526	.9290
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PHI

.000	-.0560	-.0340	-.0320
30.000	-.0210	-.0220	-.0260
60.000	-.0410	-.0280	-.0150
90.000			-.0350
120.000	-.0570	-.0160	-.1090
135.000	-.0530	-.0780	-.0900
150.000	-.0950	-.2220	-.1940
165.000		-.2090	-.1990
180.000	.0060		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1953

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RROT12) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .300
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.350

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4780	1.2600	.5060	.1240	-.1350	-.1890	-.2400	-.2250	-.1930	.0790	.0710	-.1010	-.1750	-.1350	-.0390
30.000			.6160	.2060	-.0750	-.1360	-.1950	-.1780	-.1370	-.0260	-.2330	-.2550	-.0800	-.0700	-.0790
60.000			.7490	.3110	.0000	-.0560	-.1290	-.1180	.1630	.0330	-.3810	-.2220	-.0860	-.0620	-.0090
90.000		1.5130	.8560	.3990	.0700	.0030	-.0830	-.0670	.5930	-.0950	-.4540	-.1160	-.1620	-.2010	-.1800
120.000			.8770	.4250	.0890	.0270	-.0590	-.0500	.2960	.2780	-.1460	.0020	.2220	.2150	.0480
135.000								-.0600		.2740		.0620		.1900	
150.000			.8220	.3820	.0510	-.0110	-.0880	-.0780	-.0440	.3120	.2730	.0780	.0210	.1030	.0490
165.000				.3320	.0180	-.0420	-.1140	-.1040	-.0750	.4260	.2660		-.0730		-.0220
180.000	1.4780	1.4110	.7010	.2800	-.0220	-.0760	-.1470	-.1340	-.1040	.3540	.1090	-.0460	-.1570	-.1150	.0100
270.000		1.1460													

X/LT .7449 .8526 .9290

PHI

.000	.0440	.0230	-.0010
30.000	-.0370	-.0120	.0140
60.000	-.0030	.0050	.0480
90.000			-.1460
120.000	.0650	.2660	.1680
135.000	.0590	.3150	.1430
150.000	.0410	.2890	.1220
165.000		.4720	.0600
180.000	-.1530		

MACH (1) = 1.555

BETAT (2) = -6.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5040	1.2770	.5100	.1190	-.1410	-.1920	-.2360	-.2160	-.1780	.0950	.0760	-.0690	-.1630	-.1420	-.0210
30.000			.5970	.1810	-.0960	-.1560	-.2090	-.1890	-.1520	-.0150	-.2040	-.2110	-.0860	-.0580	-.0710
60.000			.7080	.2650	-.0340	-.0860	-.1580	-.1440	.1360	.0260	-.3780	-.2360	-.0880	-.0410	-.0180
90.000		1.4960	.8000	.3450	.0230	-.0350	-.1160	-.1010	.5740	-.1000	-.4510	-.1330	-.1810	-.2220	-.1580
120.000			.8320	.3810	.0520	-.0050	-.0860	-.0770	.2470	.2970	-.0780	-.0360	.1730	.1920	.0250
135.000								-.0830		.3340		.0190		.1620	
150.000			.8070	.3590	.0370	-.0240	-.1020	-.0910	-.0590	.3280	.2730	.0710	.0010	.0760	.0440

AMES 97-707 1A9 02A + 53 + T9 EXTERNAL TANK

(R00T12)

MACH (1) = 1.535

BETAT (2) = -6.310

SECTION (1) EXTERNAL TANK

DEFENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
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PHI

[illegible]

X/LT	.7449	.8526	.9290
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FHI

.0000	-.0110	.0380	.0230
30.000	-.0490	-.0360	.0180
60.000	-.0040	-.0220	.0180
90.000			-.0000
120.000	.0340	.1950	.1220
135.000	.0220	.2420	.1060
150.000	-.0090	.2280	.0700
165.000		.4140	-.0050
180.000	-.1550		

MACH (1) = 1.555

BETAT (3) = -4.267

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CF

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
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PHI

[illegible]

X/LT	.7449	.8526	.9290
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PHI

0.000	.0030	-.0020	-.0060
30.000	-.0290	-.0300	-.0120
60.000	-.0080	-.0120	.0100
90.000			-.0150
120.000	-.0180	.1410	.0720
135.000	-.0230	.1770	.0560
150.000	-.0380	.1990	.0110

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1955

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RROT12)

MACH (1) = 1.555

BETAT (3) = -4.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2650 -.0460

180.000 -.1270

MACH (1) = 1.555

BETAT (4) = -.170

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5430	1.2980	.5290	.1290	-.1230	-.1790	-.2250	-.2050	-.1580	.0940	.1040	-.0370	-.1510	-.1860	-.0130
30.000			.5410	.1350	-.1200	-.1740	-.2220	-.1980	-.1540	-.0230	-.0390	-.1300	-.1670	-.0800	-.0400
60.000			.5800	.1670	-.1020	-.1480	-.2110	-.1880	.0740	.0650	-.3490	-.2110	-.0800	.0040	-.0290
90.000		1.3900	.6350	.2050	-.0740	-.1250	-.1890	-.1730	.4550	-.0600	-.4140	-.1950	-.2830	-.0510	-.2510
120.000			.6830	.2530	-.0420	-.0930	-.1590	-.1460	.1820	.4050	.0250	.0010	.0640	.0880	-.0530
135.000								-.1380	.2150			-.0750		.0310	
150.000			.7290	.2950	-.0150	-.0690	-.1390	-.1280	-.0890	.3490	.1560	.0540	.0490	.0100	-.0150
165.000				.2980	-.0090	-.0590	-.1320	-.1240	-.0830	.3350	.1690		-.0010		-.0100
180.000	1.5430	1.4820	.7470	.2970	-.0060	-.0580	-.1330	-.1210	-.0540	.3050	.1130	.1470	-.0060	.0010	-.0030
270.000		1.3810													

X/LT .7449 .8526 .9290

PHI

.000 .0260 .0110 .0000

30.000 .0090 -.0040 .0070

60.000 -.0280 -.0200 .0160

90.000 .0040

120.000 -.0680 .0710 -.0170

135.000 -.0850 .0990 -.0440

150.000 -.0810 .1110 -.1020

165.000 .1220 -.2150

180.000 -.0500

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT12)

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5400	1.3070	.5400	.1340	-.1220	-.1790	-.2290	-.2080	-.1610	.1070	.0960	-.0540	-.1590	-.1730	.0040
30.000			.5040	.1090	-.1350	-.1890	-.2350	-.2110	-.0870	-.0140	.0040	-.0670	-.1770	-.1090	-.0340
60.000			.5040	.1090	-.1360	-.1790	-.2370	-.2160	.0240	.1060	-.3110	-.1700	-.0390	-.0200	-.0450
90.000		1.2960	.5350	.1330	-.1260	-.1710	-.2290	-.2100	.3870	-.0620	-.4060	-.2010	-.2670	.0270	-.1620
120.000			.5830	.1750	-.0950	-.1410	-.2030	-.1900	.1460	.3910	.0790	.0520	.0010	.0170	-.0700
135.000								-.1760		.1660		.0090		-.0080	
150.000			.6610	.2400	-.0480	-.0960	-.1670	-.1570	.1350	.2870	.1400	.0170	-.0420	-.0190	-.0500
165.000				.2640	-.0270	-.0770	-.1470	-.1390	-.0950	.3220	.0600		-.0650		-.0490
180.000	1.5400	1.4710	.7430	.2870	-.0080	-.0600	-.1340	-.1200	-.0890	.4490	.0690	.0370	-.0400	-.0320	-.0070
270.000		1.4740													

X/LT .7449 .8526 .9290

PHI

.000	.0090	.0020	-.0130
30.000	.0100	.0010	.0030
60.000	.0030	-.0190	.0410
90.000			-.0170
120.000	-.1120	.0000	-.1000
135.000	-.1190	-.0670	-.1650
150.000	-.1430	-.1400	.1050
165.000		-.1760	-.1450
180.000	-.1150		

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5160	1.2790	.5360	.1410	-.1310	-.1860	-.2330	-.2190	-.1730	.0990	.0930	-.0670	-.1580	-.1490	-.0230
30.000			.4870	.0920	-.1620	-.2090	-.2490	-.2250	-.0790	.0130	-.0510	-.0620	-.1760	-.1360	-.0540
60.000			.4700	.0710	-.1680	-.1980	-.2490	-.2260	.0150	.1330	-.2800	-.1060	-.0250	-.0330	-.0570
90.000		1.2280	.4940	.0800	-.1540	-.1900	-.2470	-.2290	.3710	-.0590	-.3550	-.2010	-.1870	-.0060	-.1350
120.000			.5340	.1240	-.1300	-.1670	-.2250	-.2110	.1180	.4350	.0930	.0600	-.0210	-.0160	-.0030
135.000								-.1950		.1420		-.0010		-.0360	
150.000			.6240	.2040	-.0870	-.1290	-.1880	-.1720	-.0950	.3990	.1000	-.0270	-.0510	-.0310	-.0760
165.000				.2390	-.0530	-.1020	-.1640	-.1490	-.0800	.4430	.0250		-.0990		-.0650
180.000	1.5160	1.4500	.7280	.2820	-.0250	-.0740	-.1400	-.1260	-.0740	.5480	.0790	-.0120	-.0970	-.0730	.0040
270.000		1.4950													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1957

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RROT12)

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0000	.0320	.0180
30.000	-.0030	.0360	.0320
60.000	.0560	.0340	.0340
90.000			-.0040
120.000	-.1400	.0360	-.0320
135.000	-.1450	-.0360	-.1290
150.000	-.1840	-.1570	-.1400
165.000		-.1730	-.1870
180.000	-.1610		

MACH (1) = 1.555

BETAT (7) = 8.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5050	1.2600	.5170	.1280	-.1230	-.1790	-.2350	-.2210	-.1910	.0870	.0710	-.0920	-.1600	-.1250	-.0520
30.000			.4460	.0690	-.1660	-.2100	-.2590	-.2380	-.0760	.0360	-.0880	-.1060	-.1930	-.1650	-.0130
60.000			.4190	.0490	-.1720	-.2140	-.2590	-.2340	.0070	.1560	-.2560	-.0660	-.0500	-.0150	.0130
90.000		1.1810	.4360	.0560	-.1640	-.2130	-.2620	-.2400	.3360	-.0550	-.2820	-.2120	-.1350	-.0090	.0080
120.000			.4750	.1010	-.1440	-.1920	-.2480	-.2320	.1110	.3670	.0900	.0180	-.0510	-.0330	-.0600
135.000								-.2000		.2030		.0020		-.0540	
150.000			.5790	.1830	-.0970	-.1520	-.2090	-.1840	-.0150	.3220	.0500	-.0720	-.0780	-.0520	-.1040
165.000				.2290	-.0580	-.1180	-.1790	-.1610	-.0930	.4190	-.0320		-.1750		-.0960
180.000	1.5050	1.4390	.7100	.2780	-.0210	-.0820	-.1440	-.1270	-.0960	.6380	.0850	-.0670	-.1770	-.1110	.0170
270.000		1.5190													

X/LT .7449 .8526 .9290

PHI

.000	.0420	.0250	.0060
30.000	.0220	.0040	-.0110
60.000	.0540	.0020	-.0090
90.000			-.0580
120.000	-.1090	-.0140	-.1170
135.000	-.1070	-.1350	-.1910
150.000	-.1350	-.1850	-.1560
165.000		-.2800	-.2140
180.000	-.1660		

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT12)

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6200	1.3640	.5040	.1570	-.0680	-.1120	-.1440	-.1380	-.1170	-.0870	.0990	.0270	-.0650	-.0960	-.0370
30.000			.6140	.2250	-.0170	-.0700	-.1050	-.0950	-.0800	.0110	-.0960	-.1670	-.1370	-.0330	-.0300
60.000			.7430	.3300	.0470	.0080	-.0520	-.0460	-.0190	.1880	-.2060	-.1920	-.0360	.0030	-.0530
90.000		1.6100	.8450	.4090	.1070	.0590	-.0080	.0010	.3880	.1610	-.2400	-.2300	-.0350	-.0200	-.0470
120.000			.8730	.4330	.1290	.0770	.0080	.0170	.0660	.4480	-.0450	.0450	.1040	.2620	.1420
135.000								.0090		.3920		.1560		.2020	
150.000			.8220	.3950	.0990	.0540	-.0110	-.0060	.0260	.1370	.5000	.2140	.1340	.1020	.0900
165.000				.3490	.0700	.0300	-.0330	-.0280	-.0110	.2140	.4140		.0780	.0220	
180.000	1.6200	1.5130	.7110	.2990	.0360	.0020	-.0580	-.0530	-.0240	.1590	.2770	.1370	-.0100	-.0390	-.0670
270.000		1.2650													

X/LT .7449 .8526 .9290

PHI

.000	-.0570	-.0220	-.0100
30.000	-.0600	-.0670	-.0510
60.000	.0290	.0140	.0500
90.000		.0240	
120.000	.1060	.2340	.2720
135.000	.1020	.2970	.1720
150.000	.1010	.2710	.2380
165.000		.5820	.1040
180.000	-.0370		

MACH (2) = 2.000

BETAT (2) = -6.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6340	1.3690	.5050	.1590	-.0630	-.1030	-.1350	-.1300	-.1090	-.0730	.1090	.0310	-.0570	-.0900	-.0290
30.000			.5920	.2100	-.0190	-.0720	-.1090	-.0980	-.0810	.0270	-.0780	-.1580	-.1250	-.0340	-.0280
60.000			.6990	.2870	.0320	-.0100	-.0660	-.0560	-.0260	.1850	-.2090	-.2100	-.0590	-.0170	-.0350
90.000		1.5740	.7890	.3590	.0840	.0390	-.0250	-.0180	.3830	.1520	-.2420	-.2350	-.0810	-.0500	-.0680
120.000			.8250	.3910	.1080	.0600	-.0060	-.0010	.0500	.4590	-.0430	.0250	.0820	.2010	.1130
135.000								-.0040		.2600		.1080		.1600	
150.000			.8000	.3800	.0920	.0410	-.0200	-.0120	.0260	.1260	.5180	.1770	.1250	.0720	.0650
165.000				.3490	.0690	.0230	-.0390	-.0280	.0010	.1950	.4020		.0800	.0440	
180.000	1.6340	1.5240	.7150	.3140	.0430	.0020	-.0570	-.0490	-.0090	.2200	.2820	.1710	.0130	-.0090	-.0310
270.000		1.3090													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1959

AMES 97-707 IA9 CEA + S3 + T9 EXTERNAL TANK

(RBOT12)

MACH (2) = 2.000

BETAT (2) = -6.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0330	-.0020	.0020
30.000	-.0430	-.0590	-.0330
60.000	.0120	.0130	.0330
90.000			.0470
120.000	.0700	.1720	.2260
135.000	.0760	.2520	.1130
150.000	.0820	.2420	.1670
165.000		.5020	.0520
180.000	-.0390		

MACH (2) = 2.000

BETAT (3) = -4.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6470	1.3730	.5160	.1670	-.0510	-.0940	-.1320	-.1240	-.0950	-.0660	-.1240	.0350	-.0410	-.0880	-.0410
30.000			.5730	.2030	-.0190	-.0690	-.1070	-.0930	-.0810	.0350	-.0520	-.1370	-.1060	-.0410	-.0230
60.000			.6500	.2660	.0230	-.0170	-.0720	-.0660	-.0200	.1760	-.2120	-.2210	-.0820	-.0360	-.0110
90.000		1.5360	.7290	.3280	.0680	.0210	-.0350	-.0300	.3650	.1470	-.2440	-.2410	-.0910	-.0740	-.0830
120.000			.7730	.3630	.0880	.0410	-.0200	-.0080	.0410	.4640	-.0480	.0300	.0450	.1580	.0860
135.000								-.0100		.1180		.0900		.1360	
150.000			.7760	.3670	.0860	.0350	-.0250	-.0140	.0300	.1390	.4630	.1360	.1050	.0730	.0640
165.000				.3480	.0710	.0230	-.0380	-.0280	.0160	.2200	.3850		.0800		.0180
180.000	1.6470	1.5430	.7320	.3180	.0540	.0080	-.0500	-.0420	.0020	.2280	.2740	.2250	.0500	.0300	-.0470
270.000		1.3640													

X/LT .7449 .8526 .9290

PHI

.000	-.0140	.0120	.0100
30.000	-.0350	-.0220	-.0210
60.000	.0000	.0090	.0230
90.000			.0790
120.000	.0370	.1020	.1730
135.000	.0350	.2060	.0760
150.000	.0380	.2520	.0820
165.000		.4140	-.0180
180.000	.0110		

AMES 9T-707 IA9 02A + S3 + T9 EXTERNAL TANK

(R80T12)

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6610	1.3810	.5390	.1900	-.0480	-.0920	-.1240	-.1150	-.0910	-.0550	.1240	.0430	-.0280	-.0830	-.0710
30.000			.5500	.1840	-.0390	-.0870	-.1210	-.1100	-.0910	.0480	-.0170	-.0520	-.0790	-.0830	-.0400
60.000			.5960	.2110	-.0260	-.0580	-.1070	-.1000	-.0410	.1810	-.2050	-.2230	-.0830	-.0740	.0250
90.000		1.4740	.6570	.2560	.0010	-.0330	-.0860	-.0810	.3190	.1490	-.2390	-.2140	-.0970	-.1110	-.0580
120.000			.7080	.2980	.0360	-.0050	-.0650	-.0630	-.0290	.4670	.0040	.0260	.1070	.1130	.0470
135.000								-.0530		.1620		.0660		.1170	
150.000			.7480	.3330	.0620	.0160	-.0480	-.0450	-.0240	.2850	.3550	.0930	.0790	.0510	.0100
165.000				.3350	.0640	.0220	-.0420	-.0390	-.0180	.2770	.3420		.0920		-.0100
180.000	1.6610	1.5570	.7510	.3320	.0600	.0240	-.0400	-.0380	-.0210	.2870	.2440	.0820	.1540	.0490	-.0240
270.000		1.4480													

X/LT .7449 .8526 .9290

PHI

.000	.0030	.0230	.0190
30.000	-.0150	-.0010	.0030
60.000	-.0060	-.0370	-.0010
90.000			.0390
120.000	-.0210	.0030	.0610
135.000	-.0210	.0820	-.0170
150.000	.0080	.1260	-.0830
165.000		.1620	-.1400
180.000	.0460		

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6730	1.3940	.5250	.1750	-.0500	-.0950	-.1290	-.1230	-.0980	-.0620	.1200	.0410	-.0410	-.0880	-.0530
30.000			.4970	.1480	-.0640	-.1080	-.1390	-.1290	-.1010	.0490	-.0630	.0090	-.0500	-.1020	-.0780
60.000			.5040	.1500	-.0650	-.0950	-.1380	-.1300	-.0060	.1870	-.1810	-.2050	-.0690	-.0790	-.0010
90.000		1.4010	.5380	.1690	-.0530	-.0820	-.1280	-.1180	.2510	.1690	-.2270	-.1340	-.1080	-.1160	-.0250
120.000			.5960	.2150	-.0220	-.0580	-.1090	-.0970	-.0820	.2800	.1110	.0120	.1140	.0520	-.0040
135.000								-.0880		.1100		.0220		.0510	
150.000			.6740	.2760	.0210	-.0230	-.0800	-.0710	-.0570	.2320	.2630	.1310	.0380	-.0180	-.0280
165.000				.2980	.0410	-.0020	-.0620	-.0560	-.0440	.2460	.2500		.0880		-.0530
180.000	1.6730	1.5690	.7510	.3230	.0580	.0150	-.0490	-.0400	-.0300	.2720	.2520	.2400	.0830	.0370	-.0460
270.000		1.5520													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1981

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBOT12)

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0220	.0020	.0020
30.000	-.0150	.0010	.0040
60.000	-.0210	-.0130	.0090
90.000			.0060
120.000	-.0540	-.0170	-.0180
135.000	-.0380	-.0310	-.0840
150.000	-.0220	-.0810	-.1680
165.000		-.0480	-.2350
180.000	-.0010		

MACH (2) = 2.000

BETAT (6) = 5.960

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6540	1.3720	.5170	.1740	-.0590	-.1020	-.1350	-.1300	-.1090	-.0800	.1060	.0300	-.0660	-.0970	-.0440
30.000			.4690	.1260	-.0800	-.1210	-.1510	-.1400	-.1110	.0510	-.1000	-.0170	-.0540	-.1090	-.0960
60.000			.4600	.1100	-.0870	-.1130	-.1510	-.1410	.0080	.1640	-.1640	-.1910	-.0500	-.0770	-.0170
90.000		1.3350	.4860	.1260	-.0760	-.1060	-.1480	-.1360	.1990	.1820	-.2190	-.1070	-.1160	-.1320	-.0280
120.000			.5370	.1710	-.0500	-.0830	-.1300	-.1200	-.0750	.1420	.1790	.0050	.0850	.0400	-.0350
135.000								-.1040		.0840		-.0160		.0290	
150.000			.6300	.2450	-.0020	-.0410	-.0950	-.0840	-.0700	.2160	.2230	.1160	-.0080	-.0170	-.0370
165.000				.2780	.0230	-.0160	-.0740	-.0670	-.0320	.1920	.2170		.0120		-.0660
180.000	1.6540	1.5490	.7340	.3190	.0500	.0060	-.0540	-.0440	-.0170	.1860	.2640	.1830	.0190	.0100	-.0350
270.000		1.5770													

X/LT .7449 .8526 .9290

PHI

.000	-.0510	-.0170	-.0120
30.000	-.0170	-.0070	-.0020
60.000	-.0410	-.0190	.0020
90.000			-.0070
120.000	-.0680	-.0300	-.0690
135.000	-.0540	-.0580	-.1050
150.000	-.0500	-.1560	-.1580
165.000		-.1700	-.2020
180.000	-.0130		

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBDT12)

MACH (2) = 2.000

BETAT (7) = 8.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CF

[illegible]

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1963

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RBOT13) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4910	1.3550	.6060	.2040	-.0730	-.1300	-.1940	-.1780	-.1540	.0390	.0920	-.0550	-.1190	-.1080	-.0180
30.000			.7200	.2960	-.0050	-.0740	-.1470	-.1240	-.0960	.0500	-.1320	-.1930	-.0880	-.0130	-.0310
60.000			.8170	.3730	.0490	-.0180	-.1010	-.0800	.2190	.1800	-.2790	-.2270	-.0070	.0170	.0100
90.000		1.5220	.8530	.4010	.0740	.0020	-.0790	-.0630	.6200	-.0610	-.4620	-.0300	.0300	-.1040	-.1790
120.000			.8150	.3700	.0490	-.0210	-.0950	-.0850	.2470	.1730	-.2910	-.0800	.1910	.1600	.0470
135.000								-.1100		.1560		.0170		.1820	
150.000			.7140	.2950	-.0140	-.0730	-.1440	-.1350	-.1010	.1110	.2370	.0280	-.0190	.0990	.0660
165.000			.2400	-.0490	-.1050	-.1710	-.1570	-.1340	.3190	.2520		-.0980		-.0330	
180.000	1.4910	1.3390	.5970	.1910	-.0820	-.1350	-.1960	-.1850	-.1540	.2430	.1100	-.0470	-.1690	-.1310	-.1500
270.000		1.1630													

X/LT .7449 .8526 .9290

PHI

.000	.0200	.0320	.0130
30.000	-.0310	.0060	.0430
60.000	.0100	-.0020	.0240
90.000			-.1060
120.000	.0630	.3620	.2740
135.000	.0450	.3640	.2650
150.000	.0290	.3360	.2370
165.000		.5000	.1050
180.000	-.1210		

MACH (1) = 1.555

BETAT (2) = -6.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5180	1.3730	.6150	.2040	-.0800	-.1360	-.1920	-.1790	-.1400	.0890	.1060	-.0310	-.1090	-.1220	.0060
30.000			.7020	.2710	-.0320	-.0950	-.1610	-.1400	-.1120	.0380	-.1020	-.1410	-.0960	-.0090	-.0280
60.000			.7730	.3280	.0130	-.0480	-.1280	-.1110	.1770	.1800	-.2830	-.2390	-.0070	.0250	.0080
90.000		1.5030	.8030	.3500	.0320	-.0320	-.1100	-.0960	.5840	-.0650	-.4660	-.0490	-.0060	-.1180	-.1710
120.000			.7730	.3280	.0180	-.0490	-.1220	-.1100	.0980	.1720	-.2850	-.0950	.1600	.1580	.0190
135.000								-.1300		.1810		-.0420		.1650	
150.000			.7040	.2740	-.0270	-.0860	-.1560	-.1470	-.1120	.1950	.2330	.0140	-.0390	.0770	.0280

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(R00713)

MACH (1) = 1.555

BETAT (2) = -6.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.2370	-.0560	-.1090	-.1770	-.1640	-.1300	.2980	.2420		-.0740		-.0400
180.000	1.5160	1.3650	.6160	.1980	-.0800	-.1310	-.1930	-.1610	-.1410	.2330	.1280	.0170	-.0970	-.1410	-.0970
270.000		1.2240													

X/LT .7449 .8526 .9290

PHI

.000	-.0330	.0180	.0370
30.000	-.0200	-.0230	.0190
60.000	-.0060	-.0070	-.0020
90.000			-.1110
120.000	.0000	.2850	.2280
135.000	.0130	.3080	.2310
150.000	.0360	.2830	.1920
165.000		.4300	.0900
180.000	-.1200		

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5430	1.3960	.6260	.2050	-.0820	-.1430	-.1970	-.1750	-.1340	.1250	.1320	-.0100	-.1060	-.1390	.0280
30.000			.6800	.2530	-.0510	-.1130	-.1780	-.1460	-.1140	.0330	-.0600	-.1160	-.1060	-.0090	-.0320
60.000			.7280	.2850	-.0220	-.0840	-.1430	-.1260	.1550	.1930	-.2750	-.2530	.0040	.0200	-.0010
90.000		1.4810	.7470	.2060	-.0130	-.0680	-.1310	-.1200	.5340	-.0580	-.4600	-.0600	-.0420	-.1180	-.1510
120.000			.7260	.2860	-.0210	-.0820	-.1400	-.1280	.1060	.1940	-.2280	-.1340	.1360	.1570	-.0060
135.000								-.1370		.2750		-.0800		.1260	
150.000			.6870	.2540	-.0400	-.1090	-.1690	-.1480	-.1140	.2310	.2340	.0200	-.0510	.0570	-.0100
165.000				.2290	-.0650	-.1120	-.1760	-.1600	-.1280	.2570	.2280		-.0380		-.0500
180.000	1.5430	1.3920	.6300	.2050	-.0800	-.1270	-.1890	-.1740	-.1170	.3000	.1110	.0560	-.0620	-.1150	.0370
270.000		1.2940													

X/LT .7449 .8526 .9290

PHI

.000	-.0140	-.0010	-.0030
30.000	-.0120	-.0050	.0110
60.000	-.0100	.0000	.0080
90.000			-.0930
120.000	-.0260	.2160	.1630
135.000	.0050	.2490	.1630
150.000	-.0040	.2490	.1300

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1965

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(R80T13)

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3190 .0510

180.000 -.0710

MACH (1) = 1.555

BETAT (4) = -.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5490	1.3950	.6310	.2150	-.0700	-.1290	-.1870	-.1660	-.1240	.1070	.1440	.0030	-.1040	-.1480	-.0130
30.000			.6320	.2150	-.0740	-.1320	-.1870	-.1620	-.1230	.0560	.0470	-.0660	-.1220	-.0490	-.0260
60.000			.6350	.2090	-.0700	-.1230	-.1870	-.1630	.1270	.2270	-.2470	-.2460	-.0110	.0100	-.0230
90.000		1.3900	.6350	.2150	-.0690	-.1180	-.1830	-.1700	.4840	-.0370	-.4470	-.0430	-.1280	-.0360	-.1390
120.000			.6350	.2100	-.0680	-.1170	-.1830	-.1680	.1110	.2440	-.1040	-.1660	.0760	.0760	-.0730
135.000								-.1680		.2350		-.1540		.0220	
150.000			.6350	.2160	-.0700	-.1210	-.1830	-.1650	-.1210	.2670	.2300	.0360	-.0520	-.0090	-.0160
165.000				.2090	-.0740	-.1190	-.1810	-.1650	-.0790	.2470	.1830		-.0490		.0040
180.000	1.5490	1.4010	.6360	.2080	-.0730	-.1190	-.1830	-.1650	.0950	.1930	.1430	.1480	-.0490	-.1280	.0130
270.000		1.3920													

X/LT .7449 .8526 .9290

PHI

.000 .0100 .0200 .0120

30.000 .0020 .0120 .0170

60.000 .0090 .0010 .0220

90.000 -.0260

120.000 -.0450 .1330 .0570

135.000 -.0560 .1510 .0380

150.000 -.0370 .1610 -.0230

165.000 .1240 -.1010

180.000 -.0100

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT13)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5400	1.3840	.6390	.2230	-.0680	-.1250	-.1810	-.1690	-.1290	.0910	.1290	-.0100	-.1100	-.1460	.0190
30.000			.5880	.1790	-.0940	-.1510	-.2050	-.1850	-.1500	.0640	-.0280	-.0280	-.1270	-.1000	-.0440
60.000			.5500	.1470	-.1110	-.1610	-.2220	-.2010	.0810	.2640	-.2130	-.2070	.0170	-.0080	-.0380
90.000		1.2920	.5410	.1370	-.1190	-.1670	-.2270	-.2090	.3900	-.0510	-.4410	-.0130	-.0330	-.0510	-.0880
120.000			.5380	.1420	-.1120	-.1620	-.2190	-.2020	.1180	.2720	-.0530	-.1420	.0110	.0000	-.0920
135.000								-.1990		.0520		-.0570		-.0260	
150.000			.5780	.1730	-.0940	-.1460	-.2050	-.1910	.1090	.2210	.1300	-.0280	-.1380	-.0630	-.0140
165.000				.1840	-.0860	-.1330	-.1950	-.1830	.0910	.1910	.1270		-.1130		-.0040
180.000	1.5400	1.3920	.6290	.2030	-.0730	-.1230	-.1870	-.1730	-.1190	.2000	.1090	.0510	-.0710	-.1380	.0130
270.000		1.4750													

X/LT .7449 .8526 .9290

PHI

.000	-.0020	.0010	.0030
30.000	-.0160	.0050	.0050
60.000	.0160	-.0090	.0420
90.000			.0060
120.000	-.0420	.0640	-.0170
135.000	-.0870	-.0060	-.0690
150.000	-.1040	-.0890	-.0940
165.000		-.1180	-.0900
180.000	-.0630		

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5220	1.3660	.6360	.2230	-.0670	-.1240	-.1860	-.1710	-.1420	.0340	.1030	-.0300	-.0990	-.1130	.0070
30.000			.5610	.1560	-.1120	-.1710	-.2200	-.1990	-.1500	.1400	-.0190	-.0880	-.1550	-.1010	-.0440
60.000			.5120	.1140	-.1340	-.1780	-.2360	-.2170	.0700	.2850	-.1840	-.1490	.0210	-.0360	-.0390
90.000		1.2330	.4980	.0950	-.1400	-.1880	-.2410	-.2210	.3600	-.0440	-.4280	.0100	-.0390	-.0420	-.0970
120.000			.4990	.1040	-.1330	-.1780	-.2320	-.2110	.0940	.3250	.0040	-.0970	-.0240	-.0330	-.0790
135.000								-.2070		.0940		-.0950		-.0510	
150.000			.5480	.1510	-.1140	-.1610	-.2150	-.1970	.1040	.3010	.1330	-.0550	-.1450	-.0800	-.0380
165.000				.1740	-.0980	-.1480	-.2040	-.1850	-.0950	.3080	.0470		-.1460		-.0220
180.000	1.5220	1.3730	.6200	.2060	-.0760	-.1290	-.1900	-.1740	-.1090	.3850	.1010	-.0240	-.1160	-.1340	-.0500
270.000		1.5040													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1967

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOT13)

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0240	.0210	.0430
30.000	-.0080	.0560	.0450
60.000	.0480	.0530	.0440
90.000			.0210
120.000	-.0940	.0500	.0080
135.000	-.1010	-.0080	-.0540
150.000	-.1350	-.0720	-.1100
165.000		-.0890	-.0930
180.000	-.1290		

MACH (1) = 1.555

BETAT (7) = 8.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5090	1.3530	.6200	.2120	-.0780	-.1400	-.1930	-.1780	-.1510	.0040	.0750	-.0540	-.1000	-.0980	-.0250
30.000			.5110	.1220	-.1420	-.1940	-.2350	-.2170	-.1720	.1010	.0100	-.0840	-.1430	-.1090	.0060
60.000			.4530	.0710	-.1630	-.2010	-.2530	-.2320	.0570	.3000	-.1540	-.0470	.0030	-.0670	.0500
90.000		1.1870	.4390	.0590	-.1700	-.2090	-.2580	-.2320	.3440	-.0420	-.4170	.0220	-.0490	-.0800	.0120
120.000			.4420	.0730	-.1670	-.2000	-.2470	-.2330	.0740	.3520	.0280	.0070	-.0770	-.0640	-.0190
135.000								-.2320		.0810		-.0900		-.0740	
150.000			.5070	.1190	-.1360	-.1760	-.2340	-.2050	.0010	.3010	.0960	-.0830	-.1690	-.1030	-.0440
165.000				.1500	-.1100	-.1580	-.2210	-.2010	-.0730	.2980	.0040		-.1970		-.0790
180.000	1.5090	1.3630	.6010	.1910	-.0870	-.1310	-.1950	-.1810	-.1170	.4470	.0960	-.0670	-.1820	-.1360	-.1150
270.000		1.5290													

X/LT	.7449	.8526	.9290
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PHI

.000	.0180	.0330	.0220
30.000	.0410	.0230	.0090
60.000	.0650	.0110	-.0050
90.000			-.0430
120.000	-.0490	.0020	-.0660
135.000	-.0740	-.0610	-.0970
150.000	-.0780	-.1530	-.1080
165.000		-.1830	-.1700
180.000	-.1400		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBO113)

MACH (2) = 2.000

BETAT (1) = -8.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6370	1.4560	.6070	.2360	-.0210	-.0080	-.1070	-.1000	-.0900	-.0700	.0960	.0150	-.0370	-.0620	-.0100
30.000			.7190	.3080	.0410	-.0200	-.0640	-.0540	-.0420	.0790	-.0010	-.0860	-.0980	-.0340	.0040
60.000			.8180	.3830	.0930	.0450	-.0230	-.0150	.0920	.3270	-.1290	-.1320	-.0730	.0440	.0350
90.000		1.6190	.8510	.4140	.1120	.0630	-.0050	.0050	.3790	.2000	-.2480	-.2040	.1110	.0710	-.0690
120.000			.8130	.3860	.0900	.0440	-.0170	-.0110	.0250	.3270	-.1280	-.0520	.0260	.2310	.1280
135.000								-.0320		.2840		.0500		.1670	
150.000			.7180	.3090	.0390	-.0020	-.0560	-.0530	-.0280	.0760	.3410	.1670	.0940	.0440	.0830
165.000				.2630	.0070	-.0290	-.0780	-.0750	-.0410	.0640	.3880		.0520		.0080
180.000	1.6370	1.4470	.6050	.2170	-.0220	-.0540	-.1020	-.0970	-.0510	.0900	.2890	.0970	-.0140	-.0530	-.0810
270.000		1.2800													

X/LT .7449 .8526 .9290

PHI

.000	-.0400	-.0470	-.0360
30.000	-.0180	-.0200	-.0130
60.000	.0260	.0190	.0340
90.000			.0490
120.000	.1130	.2590	.2950
135.000	.1130	.3160	.2380
150.000	.1090	.2780	.2930
165.000		.6190	.1420
180.000	-.0410		

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6430	1.4570	.6100	.2350	-.0160	-.0640	-.1010	-.0960	-.0720	-.0580	.1110	.0300	-.0220	-.0490	-.0060
30.000			.6940	.2890	.0290	-.0260	-.0690	-.0570	-.0380	.0950	.0260	-.0830	-.0860	-.0360	.0060
60.000			.7640	.3400	.0680	.0270	-.0340	-.0280	.0730	.3320	-.1260	-.1390	-.0900	.0260	.0290
90.000		1.5810	.7990	.3620	.0890	.0440	-.0220	-.0140	.3640	.1980	-.2470	-.2230	.0860	.0420	-.0890
120.000			.7690	.3430	.0720	.0300	-.0300	-.0270	.0140	.3420	-.1240	-.0690	.0370	.1870	.1080
135.000								-.0390		.3120		.0630		.1150	
150.000			.6990	.2920	.0280	-.0090	-.0610	-.0550	-.0190	.0730	.4260	.1440	.0910	.0250	.0620
165.000				.2580	.0080	-.0300	-.0810	-.0720	-.0270	.1000	.3980		.0600		.0120
180.000	1.6430	1.4480	.6140	.2270	-.0140	-.0470	-.0970	-.0890	-.0460	.1280	.2880	.1700	.0130	-.0130	-.0620
270.000		1.3180													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1969

AMES 97-707 IA9 O2A + S3 + T9-EXTERNAL TANK

(RBO113)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0200	-.0220	-.0120
30.000	-.0110	-.0090	-.0030
60.000	.0210	.0070	.0290
90.000			.0510
120.000	.0730	.1910	.2630
135.000	.0900	.2660	.1560
150.000	.0780	.2470	.2100
165.000		.5010	.0870
180.000	-.0570		

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6630	1.4690	.6170	.2370	-.0190	-.0680	-.0950	-.0870	-.0570	-.0480	.1580	.0590	-.0170	-.0410	-.0160
30.000			.6680	.2730	.0150	-.0370	-.0730	-.0570	-.0380	.1080	.0330	-.0690	-.0510	-.0460	.0120
60.000			.7160	.3120	.0510	.0150	-.0430	-.0340	.0430	.3320	-.1230	-.1490	-.1100	.0180	.0260
90.000		1.5460	.7300	.3290	.0610	.0250	-.0290	-.0240	.3510	.1970	-.2470	-.2320	.0530	.0130	-.0990
120.000			.7160	.3150	.0450	.0180	-.0390	-.0320	.0100	.3340	-.1160	-.0680	-.0190	.1560	.0900
135.000								-.0410	.2420		.0560		.0690		
150.000			.6770	.2820	.0190	-.0120	-.0650	-.0530	-.0060	.0910	.3950	.1010	.0760	.0260	.0510
165.000				.2550	.0020	-.0270	-.0780	-.0680	-.0210	.1610	.3620		.0700		-.0090
180.000	1.6630	1.4700	.6230	.2300	-.0130	-.0410	-.0910	-.0830	-.0400	.1750	.2920	.2060	.0570	.0060	-.0850
270.000		1.3810													

X/LT .7449 .8526 .9290

PHI

.000	-.0060	-.0020	.0050
30.000	-.0100	-.0050	.0040
60.000	.0210	.0000	.0310
90.000			.0850
120.000	.0270	.1310	.2130
135.000	.0530	.2070	.1070
150.000	.0420	.2200	.1310
165.000		.4300	.0080
180.000	-.0700		

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBO113)

MACH (2) = 2.000

BETAT (4) = -.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6710	1.4710	.6370	.2700	.0060	-.0460	-.0860	-.0770	-.0550	-.0430	.1650	.0780	.0060	-.0360	-.0420
30.000			.6390	.2590	.0060	-.0490	-.0870	-.0750	-.0560	.1050	-.0260	.0270	-.0240	-.0550	-.0090
60.000			.6560	.2550	.0060	-.0290	-.0850	-.0770	-.0390	.3400	-.1120	-.1510	-.0970	.0200	.0260
90.000	1.4870		.6640	.2630	.0100	-.0300	-.0860	-.0790	.2920	.1950	-.2430	-.2240	.0150	-.0480	-.0800
120.000			.6630	.2620	.0030	-.0350	-.0870	-.0740	-.0420	.3440	-.0850	-.0370	-.0650	.1130	.0340
135.000								-.0740		.1330		.0300		.0400	
150.000			.6570	.2580	.0030	-.0340	-.0830	-.0740	-.0530	.2280	.3110	.0620	.0640	-.0060	-.0090
165.000				.2500	.0050	-.0330	-.0860	-.0740	-.0540	.2220	.3340		.0920		-.0540
180.000	1.6710	1.4870	.6490	.2490	.0030	-.0320	-.0880	-.0740	-.0530	.2210	.2570	.1240	.1320	.0200	-.0730
270.000		1.4610													

X/LT .7449 .8526 .9290

PHI

.000	.0100	.0150	.0130
30.000	-.0020	.0000	.0100
60.000	.0000	-.0110	.0250
90.000			.0620
120.000	-.0310	.0410	.1030
135.000	-.0150	.1010	.0100
150.000	.0000	.1430	-.0570
165.000		.1570	-.1300
180.000	.0460		

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6800	1.4800	.6350	.2540	-.0060	-.0560	-.0940	-.0870	-.0670	-.0520	.1590	.0490	-.0170	-.0490	-.0260
30.000			.5890	.2030	-.0300	-.0800	-.1150	-.1050	-.0800	.0920	-.0830	.0180	-.0050	-.0620	-.0540
60.000			.5620	.1810	-.0470	-.0770	-.1220	-.1140	-.0060	.2390	-.0830	-.1390	-.0610	.0210	.0060
90.000	1.4050		.5520	.1660	-.0520	-.0810	-.1260	-.1140	.2170	.1980	-.2380	-.1450	-.0030	-.0310	-.0660
120.000			.5560	.1820	-.0470	-.0780	-.1200	-.1110	-.0030	.2290	-.0380	-.0300	-.0260	.0390	-.0210
135.000								-.1090		.0280		.0150		.0130	
150.000			.5960	.2140	-.0290	-.0650	-.1130	-.1040	-.0810	.1820	.2420	.1360	.0130	-.0700	-.0550
165.000				.2260	-.0210	-.0530	-.1030	-.0950	-.0760	.1810	.2600		.0480		-.1190
180.000	1.6800	1.4880	.6450	.2440	-.0080	-.0410	-.0940	-.0860	-.0680	.1980	.2800	.2300	.0630	.0020	-.0920
270.000		1.5590													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 1971

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(R80T13)

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0150	-.0130	-.0100
30.000	-.0150	-.0050	-.0050
60.000	-.0180	-.0180	.0210
90.000			.0220
120.000	-.0810	.0120	.0180
135.000	-.0310	-.0250	-.0490
150.000	-.0140	-.0850	-.1430
165.000		-.0400	-.1510
180.000	-.0620		

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6590	1.4550	.6260	.2480	-.0070	-.0550	-.0950	-.0930	-.0760	-.0660	.1160	.0430	-.0260	-.0550	-.0190
30.000			.5510	.1830	-.0420	-.0900	-.1250	-.1160	-.0940	.1010	-.0730	-.0560	-.0670	-.0930	-.0470
60.000			.5020	.1460	-.0650	-.0930	-.1370	-.1300	.0140	.1670	-.0630	-.1270	-.0210	.0220	-.0160
90.000		1.3440	.4870	.1370	-.0720	-.1020	-.1430	-.1320	.1860	.2140	-.2310	-.0620	-.0080	-.0220	-.0520
120.000			.4970	.1480	-.0640	-.0950	-.1360	-.1250	.0190	.1490	.0260	-.0320	.0550	.0090	-.0530
135.000								-.1210		.0230		-.0130		-.0030	
150.000			.5490	.1860	-.0400	-.0730	-.1200	-.1100	-.0860	.1770	.2060	.1040	-.0220	-.0880	-.0590
165.000				.2070	-.0280	-.0590	-.1090	-.1010	-.0700	.1530	.2190		.0030		-.1460
180.000	1.6590	1.4710	.6230	.2370	-.0070	-.0460	-.0950	-.0870	-.0510	.1360	.2730	.1740	.0240	.0100	-.0620
270.000		1.5850													

X/LT .7449 .8526 .9290

PHI

.000	-.0280	-.0350	-.0280
30.000	-.0160	-.0160	-.0130
60.000	-.0330	-.0130	.0100
90.000			.0130
120.000	-.0770	-.0100	-.0310
135.000	-.0520	-.0500	-.0460
150.000	-.0410	-.1500	-.0990
165.000		-.1440	-.1550
180.000	-.0640		

AMES 97-707 1A9 02A + 53 + T9 EXTERNAL TANK

(RBOY13)

MACH (2) = 2.000

$$\text{BETAY} (7) = 8.025$$

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9290
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FBI

.000	-.0520	-.0700	-.0570
30.000	-.0350	-.0270	-.0280
60.000	-.0410	-.0200	-.0020
90.000			-.0120
120.000	-.0830	-.0360	.0090
135.000	-.0990	-.0890	-.0590
150.000	-.0740	-.2220	-.1450
165.000		-.2040	-.1470
180.000	-.0510		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1973

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT14) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .300
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4760	1.4250	.7080	.2910	-.0090	-.0710	-.1460	-.1300	-.1080	.0030	.0840	-.0130	-.0600	-.0710	.0130
30.000			.8250	.3840	.0580	-.0090	-.0930	-.0730	-.0420	.1260	-.0420	-.1300	-.0310	.0140	.0200
60.000			.8760	.4270	.0970	.0200	-.0670	-.0460	.2880	.2980	-.1830	-.1170	-.0160	.0430	.0690
90.000	1.5070		.8470	.4020	.0750	.0000	-.0830	-.0720	.5780	-.0510	-.3010	-.1330	.0100	.0910	.0810
120.000			.7430	.3130	.0060	-.0610	-.1340	-.1260	.1550	.0250	-.2390	-.0870	.0110	.1140	.0650
135.000								-.1590		.0150		.0740		.1240	
150.000			.6120	.2090	-.0740	-.1290	-.1960	-.1880	-.1470	.0460	.1790	.0580	-.0290	.0870	.0610
165.000				.1530	-.1070	-.1610	-.2230	-.2150	-.1270	.1540	.2190		-.0750		-.0260
180.000	1.4760	1.2420	.4980	.1110	-.1340	-.1870	-.2440	-.2330	.0470	.1290	.0970	-.0330	-.1420	-.1510	-.1630
270.000		1.1480													

X/LT .7449 .8526 .9290

PHI

.000	-.0410	.0470	.0420
30.000	-.0110	.0120	.0710
60.000	.0240	.0680	.0350
90.000			-.1190
120.000	.0860	.3910	.3190
135.000	.0770	.4480	.3120
150.000	.0420	.4680	.2900
165.000		.4920	.0550
180.000	-.0150		

MACH (1) = 1.555

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5000	1.4450	.7200	.2940	-.0070	-.0740	-.1460	-.1340	-.0970	.0240	.1380	.0060	-.0540	-.0750	.0370
30.000			.8010	.3630	.0390	-.0320	-.1120	-.0920	-.0610	.1260	-.0070	-.0710	-.0360	.0050	.0220
60.000			.8310	.3820	.0610	-.0140	-.0990	-.0800	.2390	.3040	-.1840	-.1250	-.0150	.0450	.0520
90.000	1.4900		.7940	.3500	.0350	-.0410	-.1170	-.1010	.5430	-.0570	-.3060	-.1430	.0030	.0890	.0650
120.000			.7010	.2780	-.0220	-.0910	-.1590	-.1480	.1260	.0320	-.2320	-.1290	.0020	.1000	.0390
135.000								-.1760		.0370		.0250		.1180	
150.000			.6000	.1980	-.0850	-.1450	-.2090	-.2000	-.1450	.1030	.1850	.0240	-.0220	.0510	.0150

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBT14)

MACH (1) = 1.555

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CF

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
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PHI

[illegible]

X/LT	.7449	.8526	.9290
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PHI

.0000	-.0320	-.0230	.0590
30.000	-.0020	.0020	.0310
60.000	.0190	.0600	.0260
90.000			-.1430
120.000	.0460	.3470	.2820
135.000	.0330	.3970	.2930
150.000	.0610	.3840	.3000
165.000		.4830	.0600
180.000	-.0480		

MACH (1) = 1.535

$$\text{BETAT} (3) = -4.220$$

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
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PHI

[illegible]

X/LY	.7449	.8526	.9290
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PHI

.000	-.0120	.0040	.0200
30.000	-.0030	.0170	.0520
60.000	.0130	.0580	.0340
90.000			-.1570
120.000	.0500	.2990	.2270
135.000	.0580	.3410	.2420
150.000	.0570	.3480	.2450

AMES 97-707 1A9 ORA + S3 + T9 EXTERNAL TANK

(RBO114)

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3690 .0460

180.000 -.0190

MACH (1) = 1.555

BETAT (4) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5400 1.4720 .7400 .3040 .0000 -.0670 -.1390 -.1210 -.0830 -.0140 .1970 .0570 -.0450 -.0890 .0000

30.000 .7210 .2910 -.0110 -.0760 -.1480 -.1210 -.0890 .1330 .0390 .0130 -.0560 -.0440 -.0200

60.000 .6770 .2540 -.0330 -.0930 -.1630 -.1450 .1770 .3570 -.1530 -.1680 -.0110 .0330 -.0060

90.000 1.3840 .6320 .2060 -.0630 -.1220 -.1880 -.1750 .4580 -.0570 -.3060 -.1320 .0320 .0440 .0150

120.000 .5770 .1710 -.0970 -.1470 -.2040 -.1890 .1090 .1030 -.2850 -.1290 .0660 .0380 -.0560

135.000 .5450 .1490 -.1110 -.1620 -.2160 -.2000 -.0110 .1730 .1920 -.0220 -.0730 -.0060 .0200

165.000 .1330 -.1170 -.1630 -.2180 -.2020 .0570 .1730 .1890 -.0590 .0830

180.000 1.5400 1.3060 .5340 .1290 -.1180 -.1650 -.2230 -.2040 .0840 .1220 .1630 .1580 -.0620 -.1530 .1050

270.000 1.3880

X/LT .7449 .8526 .9290

PHI

.000 .0000 .0260 .0250

30.000 .0020 .0250 .0520

60.000 .0290 .0290 .0440

90.000 .0400 .1980 .0990

120.000 .0280 .2180 .0860

135.000 .0020 .1950 .1020

165.000 .1410 -.0500

180.000 .0120

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBDT14)

MACH (1) = 1.555

BETAT (5) = 3.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9290
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PHI

0.000	-.0030	.0120	.0310
30.000	-.0160	.0170	.0220
60.000	.0100	.0130	.0310
90.000			.0100
120.000	.0040	.0470	.0460
135.000	-.0130	.0050	.0480
150.000	-.0360	-.0730	.0010
165.000		-.0810	-.0860
180.000	-.0100		

MACH (1) = 1.555

BETAT (G) = 6.500

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9290
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PHI

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(R80T14)

MACH (1) = 1.555

BETAT (6) = 6.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0300	-.0100	.0710
30.000	-.0290	.0680	.0650
60.000	-.0020	.0640	.0580
90.000		.0200	
120.000	.0130	.1010	.0430
135.000	-.0330	.0420	.0180
150.000	-.0430	-.0840	-.0500
165.000		-.0910	-.1050
180.000	-.0490		

MACH (1) = 1.555

BETAT (7) = 8.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4970	1.4280	.7110	.3000	-.0070	-.0690	-.1450	-.1330	-.1030	.0120	.0780	-.0160	-.0470	-.0640	.0100
30.000			.5780	.1890	-.0930	-.1510	-.2080	-.1940	-.1180	.1230	.0900	-.0270	-.1030	-.0710	-.0670
60.000			.4790	.1030	-.1430	-.1930	-.2490	-.2250	.0470	.3110	-.0420	-.0720	.0180	-.0500	.0370
90.000		1.1760	.4300	.0600	-.1650	-.2120	-.2590	-.2380	.3470	-.0640	-.2900	.0240	-.0130	-.1440	.0490
120.000			.4090	.0490	-.1680	-.2160	-.2610	-.2380	.0380	.1970	-.0920	-.1260	-.0550	-.0490	-.0330
135.000								-.2400		.0390		-.0810		-.0260	
150.000			.4300	.0720	-.1690	-.2100	-.2560	-.2250	.0400	.2380	.1410	-.0780	-.1990	-.0900	-.0080
165.000				.0900	-.1530	-.2010	-.2490	-.2100	-.0020	.1890	.0570		-.1920		-.0680
180.000	1.4970	1.2650	.5020	.1180	-.1380	-.1850	-.2350	-.2060	-.0630	.2240	.1000	-.0430	-.1450	-.1480	-.1600
270.000		1.5210													

X/LT .7449 .8526 .9290

PHI

.000	-.0380	.0420	.0510
30.000	.0480	.0420	.0240
60.000	.0410	.0200	.0150
90.000			-.0190
120.000	.0030	.0140	.0180
135.000	-.0120	-.0540	-.0250
150.000	-.0020	-.1990	-.1210
165.000		-.1650	-.1620
180.000	-.0040		

AMES 97-707 1A9 CCA + S3 + T9 EXTERNAL TANK

(RDOT14)

MACH (2) = 2.000

BETAT (1) = -8.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6170	1.5260	.7130	.3160	.0420	-.0140	-.0620	-.0590	-.0490	-.0420	.1060	.0340	.0060	-.0250	.0210
30.000			.8250	.3930	.0980	.0260	-.0170	-.0090	.0030	.1700	.0930	-.0220	-.0330	.0090	.0410
60.000			.8780	.4340	.1220	.0770	.0060	.0170	.0610	.4470	-.0390	-.0570	-.0210	.0220	.0890
90.000		1.6030	.8480	.4130	.1020	.0630	-.0040	-.0010	.3690	.2120	-.2250	-.2270	.0270	.1490	.1260
120.000			.7370	.3350	.0430	.0120	-.0460	-.0430	.0950	.1830	-.1980	-.1820	.0210	.1940	.0990
135.000								-.0710	.0900		-.0650			.1560	
150.000			.6100	.2300	-.0210	-.0500	-.1000	-.0970	-.0620	.1000	.1490	.1080	.0580	.0480	.0900
165.000				.1790	-.0500	-.0760	-.1230	-.1130	-.0720	.0480	.3500		.0340		.0150
180.000	1.6170	1.3490	.4980	.1410	-.0720	-.0960	-.1380	-.1160	-.0760	.0750	.2840	.0160	-.0120	-.0720	-.0740
270.000		1.2650													

X/LT .7449 .8526 .9290

PHI

.000	-.0150	-.0200	-.0280
30.000	.0320	.0110	.0310
60.000	.0730	.0670	.0860
90.000			.0110
120.000	.1330	.2720	.3050
135.000	.1080	.3340	.2780
150.000	.1050	.2780	.3700
165.000		.6440	.1870
180.000	-.0420		

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6300	1.5310	.7200	.3240	.0400	-.0140	-.0590	-.0560	-.0350	-.0230	.1360	.0430	.0140	-.0080	.0320
30.000			.8000	.3740	.0830	.0210	-.0280	-.0110	.0010	.1730	.0980	-.0100	-.0120	.0010	.0310
60.000			.8310	.3870	.1040	.0590	-.0100	-.0040	.0310	.4660	-.0340	-.0720	-.0390	.0040	.0730
90.000		1.5680	.7930	.3640	.0860	.0400	-.0250	-.0190	.3510	.2160	-.2230	-.2250	.0110	.1300	.1090
120.000			.7090	.2930	.0350	-.0040	-.0590	-.0540	.0790	.1840	-.1990	-.1230	.0270	.1640	.0720
135.000								-.0750	.0860		-.0390			.1160	
150.000			.6000	.2150	-.0260	-.0520	-.1010	-.0940	-.0570	.1110	.2630	.0920	.0470	.0300	.0770
165.000				.1780	-.0510	-.0760	-.1190	-.1090	-.0670	.0690	.3560		.0400		.0090
180.000	1.6300	1.3590	.5130	.1520	-.0670	-.0920	-.1340	-.1160	-.0700	.0940	.2880	.0850	.0160	-.0260	-.0600
270.000		1.3100													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RBO114)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0000	-.0010	-.0060
30.000	.0330	.0180	.0360
60.000	.0580	.0530	.0750
90.000			-.0230
120.000	.1080	.2170	.2430
135.000	.0820	.2820	.2190
150.000	.0790	.2460	.2710
165.000		.5420	.1310
180.000	-.0610		

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6490	1.5450	.7290	.3310	.0460	-.0090	-.0550	-.0500	-.0280	-.0090	.1620	.0880	.0200	.0000	.0330
30.000			.7720	.3580	.0760	.0150	-.0330	-.0180	.0000	.1750	.0690	.0080	-.0010	-.0010	.0310
60.000			.7730	.3550	.0820	.0390	-.0250	-.0080	.0080	.4730	-.0340	-.0720	-.0560	-.0030	.0660
90.000		1.5360	.7310	.3270	.0570	.0220	-.0370	-.0330	.3280	.2070	-.2240	-.2400	.0110	.1110	.0980
120.000			.6600	.2710	.0160	-.0180	-.0670	-.0620	.0400	.1820	-.1930	-.1550	.0170	.1540	.0690
135.000								-.0790		.0860		.0120		.1010	
150.000			.5850	.2070	-.0260	-.0570	-.1030	-.0930	-.0550	.0620	.2890	.0690	.0380	.0090	.0400
165.000				.1810	-.0470	-.0730	-.1140	-.1050	-.0700	.1070	.3270		.0460		-.0220
180.000	1.6490	1.3790	.5270	.1580	-.0570	-.0830	-.1300	-.1180	-.0830	.1380	.2810	.1920	.0510	-.0230	-.0970
270.000		1.3740													

X/LT .7449 .8526 .9290

PHI

.000	.0120	.0130	.0140
30.000	.0270	.0170	.0310
60.000	.0470	.0310	.0730
90.000			.0060
120.000	.0660	.1700	.2120
135.000	.0580	.2340	.1860
150.000	.0360	.2540	.1680
165.000		.4410	.0670
180.000	.0610		

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RBOT14)

MACH (2) = 2.000

BETAT (4) = -.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6600	1.5490	.7400	.3380	.0680	.0090	-.0430	-.0380	-.0190	.0080	.1630	.1190	.0570	.0080	.0090
30.000			.7340	.3220	.0600	.0030	-.0470	-.0410	-.0080	.0880	.0350	.0680	.0290	.0010	.0060
60.000			.6980	.2950	.0380	-.0090	-.0650	-.0620	-.0210	.4580	-.0180	-.0750	-.0560	.0040	.0570
90.000		1.4730	.6480	.2550	.0020	-.0400	-.0880	-.0810	.2810	.1980	-.2230	-.2350	.0440	.1000	.0690
120.000			.5950	.2100	-.0220	-.0570	-.1060	-.0990	-.0220	.1900	-.1790	-.1350	.0210	.1270	.0270
135.000								-.1050		.1120		-.0160		.0510	
150.000			.5570	.1830	-.0350	-.0690	-.1170	-.1090	-.0870	.1600	.2230	.0600	.0500	-.0350	-.0140
165.000				.1720	-.0410	-.0740	-.1180	-.1100	-.0860	.1540	.2950		.0960		-.0560
180.000	1.6600	1.3890	.5420	.1690	-.0530	-.0770	-.1210	-.1130	-.0830	.1520	.2660	.1410	.1200	-.0020	-.1020
270.000		1.4550													

X/LT .7449 .8526 .9290

PHI

.000	.0140	.0190	.0160
30.000	.0180	.0150	.0200
60.000	.0140	.0020	.0540
90.000			.0270
120.000	-.0030	.0840	.1300
135.000	.0020	.1440	.0670
150.000	.0290	.1690	-.0110
165.000		.1740	-.0940
180.000	.1350		

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6720	1.5600	.7470	.3390	.0510	-.0050	-.0470	-.0430	-.0290	-.0040	.1810	.1000	.0300	-.0070	.0250
30.000			.6750	.2680	.0110	-.0450	-.0790	-.0720	-.0270	.0690	-.0310	.0110	.0040	-.0360	-.0250
60.000			.5960	.2130	-.0290	-.0600	-.1080	-.1020	-.0470	.2930	.0120	-.0650	-.0450	.0200	.0300
90.000		1.3940	.5370	.1640	-.0600	-.0830	-.1280	-.1190	.2510	.1870	-.2180	-.2300	.0850	.0910	.0110
120.000			.5060	.1430	-.0720	-.0960	-.1360	-.1270	.0230	.1980	-.1520	-.1000	.0540	.0530	-.0300
135.000								-.1280		.0060		.0090		-.0030	
150.000			.5100	.1450	-.0730	-.0980	-.1380	-.1290	-.0180	.1330	.2490	.1270	-.0240	-.1040	-.0670
165.000				.1490	-.0700	-.0930	-.1350	-.1280	-.0960	.1050	.2670		.0190		-.1620
180.000	1.6720	1.4010	.5340	.1580	-.0600	-.0850	-.1320	-.1230	-.0990	.1110	.2780	.1870	.0530	-.0280	-.1000
270.000		1.5570													

X/LT .7449 .8526 .9290

PHI

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1981

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBT14)

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0070	.0060	-.0040
30.000	-.0040	-.0010	-.0020
60.000	-.0200	-.0120	.0320
90.000			.0250
120.000	-.0380	.0350	.0360
135.000	.0150	.0070	-.0120
150.000	.0290	-.0560	-.1120
165.000		-.0280	-.1490
180.000	.0570		

MACH (2) = 2.000

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6440	1.5380	.7340	.3350	.0500	-.0060	-.0470	-.0430	-.0360	-.0230	.0900	.0720	.0170	-.0090	.0250
30.000			.6270	.2450	-.0050	-.0570	-.0890	-.0840	-.0530	.0920	-.0040	.0340	.0070	-.0330	-.0250
60.000			.5380	.1760	-.0500	-.0780	-.1250	-.1200	-.0650	.2480	.0290	-.0540	-.0330	.0040	.0080
90.000		1.3320	.4850	.1310	-.0800	-.1030	-.1430	-.1370	.2160	.1990	-.2110	-.2040	.0420	.0770	-.0250
120.000			.4560	.1140	-.0830	-.1060	-.1460	-.1390	.0040	.1790	-.1330	-.0760	-.0190	.0270	-.0620
135.000								-.1380		-.0140		-.0070		-.0170	
150.000			.4700	.1240	-.0790	-.1010	-.1410	-.1370	-.1010	.1340	.2210	.0790	-.0390	-.1110	-.0750
165.000				.1350	-.0730	-.0940	-.1370	-.1330	-.0940	.1270	.2240		-.0080		-.1610
180.000	1.6440	1.3730	.5210	.1550	-.0620	-.0870	-.1300	-.1210	-.0840	.0960	.2730	.1260	.0180	-.0250	-.0730
270.000		1.5800													

X/LT .7449 .8526 .9290

PHI

.000	-.0070	-.0080	-.0220
30.000	-.0160	-.0150	-.0120
60.000	-.0390	-.0090	.0210
90.000			.0030
120.000	-.0370	.0140	.0130
135.000	-.0070	-.0160	-.0330
150.000	-.0040	-.1070	-.0740
165.000		-.1100	-.1500
180.000	-.0680		

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT14)

MACH (2) = 2.000

BETAT (7) = 8.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6350	1.5250	.7120	.3230	.0400	-.0140	-.0550	-.0520	-.0420	-.0360	.0080	.0490	-.0050	-.0350	.0090
30.000			.5850	.2080	-.0310	-.0810	-.1100	-.1080	-.0740	.1140	.0500	.0410	-.0130	-.0470	-.0250
60.000			.4860	.1260	-.0820	-.1080	-.1490	-.1450	-.0790	.0810	.0550	-.0330	-.0210	.0320	-.0280
90.000		1.2850	.4340	.0880	-.1080	-.1260	-.1640	-.1540	.1690	.1960	-.2110	-.1910	.0890	.0410	-.1000
120.000			.4140	.0810	-.1100	-.1290	-.1650	-.1550	.0370	.1320	-.0710	-.0680	.0140	-.0190	-.1040
135.000								-.1550		-.0230		-.0170		-.0460	
150.000			.4360	.1000	-.1000	-.1210	-.1610	-.1340	-.0460	.1050	.2060	.0430	-.0720	-.1360	-.0990
165.000				.1190	-.0880	-.1100	-.1490	-.1200	-.0600	.0930	.1990		-.0580		-.1720
180.000	1.6350	1.3660	.5020	.1460	-.0690	-.0940	-.1370	-.1170	-.0750	.0600	.2670	.0010	-.0250	-.0840	-.0770
270.000		1.6160													

X/LT	.7449	.8526	.9290
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PHI

.000	-.0270	-.0300	-.0480
30.000	-.0340	-.0330	-.0330
60.000	-.0550	-.0120	.0050
90.000			-.0220
120.000	-.0560	.0080	.0650
135.000	-.0530	-.0590	-.0000
150.000	-.0430	-.1430	-.1220
165.000		-.1360	-.1310
180.000	-.0510		

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOT15) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.320

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4630	1.4570	.7630	.3360	.0210	-.0500	-.1130	-.1020	-.0760	.0320	.1070	.0090	-.0300	-.0440	.0490
30.000			.8770	.4270	.0890	.0130	-.0640	-.0400	-.0160	.1910	.0050	-.0850	-.0090	.0360	.0430
60.000			.9090	.4440	.1080	.0410	-.0470	-.0300	.3180	.3480	-.1370	-.1030	-.0030	.0610	.0870
90.000	1.4980		.8490	.3830	.0620	-.0030	-.0850	-.0730	.5910	-.0560	-.2440	-.1810	-.0110	.0820	.1340
120.000			.7040	.2760	-.0270	-.0800	-.1510	-.1410	.1050	-.0530	-.2800	-.1370	.0190	.1140	.1030
135.000								-.1800		-.0470		-.0340		.1230	
150.000			.5540	.1600	-.1140	-.1590	-.2180	-.2120	-.1430	-.0050	.1350	.0440	-.0410	.0810	.0850
165.000				.1050	-.1480	-.1860	-.2440	-.2350	-.0740	.1800	.1860		-.0680		-.0140
180.000	1.4630	1.1910	.4450	.0730	-.1700	-.2070	-.2610	-.2490	.0250	.1170	.0950	-.0060	-.1370	-.1560	-.1510
270.000		1.1450													

X/LT .7449 .8526 .9290

PHI

.000	-.0260	.0460	.0540
30.000	.0300	.0250	.0980
60.000	.0550	.0930	.0630
90.000			-.1420
120.000	.1000	.3870	.2830
135.000	.0880	.4230	.3040
150.000	.0650	.4550	.3080
165.000		.4020	.1420
180.000	.0430		

MACH (1) = 1.555

BETAT (2) = -6.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4890	1.4770	.7720	.3350	.0200	-.0530	-.1140	-.1030	-.0650	.0440	.1430	.0440	-.0190	-.0430	.0600
30.000			.8540	.3940	.0630	-.0090	-.0840	-.0600	-.0350	.1660	.0320	-.0410	-.0060	.0280	.0430
60.000			.8600	.3940	.0660	.0020	-.0810	-.0600	.2790	.3590	-.1320	-.1100	-.0050	.0570	.0710
90.000	1.4740		.7890	.3340	.0160	-.0430	-.1190	-.1060	.5550	-.0610	-.2390	-.1840	-.0270	.0810	.1050
120.000			.6660	.2370	-.0570	-.1080	-.1740	-.1600	.0800	-.0520	-.2720	-.1480	-.0020	.1030	.0720
135.000								-.1950		-.0130		-.0300		.0920	
150.000			.5490	.1450	-.1250	-.1690	-.2280	-.2140	-.1280	.0240	.1570	.0140	-.0210	.0390	.0310

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(R80T15)

MACH (1) = 1.555

BETAT (2) = -6.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.1050	-.1570	-.1900	-.2390	-.2290	.0270	.1240	.1730		-.0600		-.0530
180.000	1.4890	1.2120	.4630	.0740	-.1670	-.1990	-.2500	-.2390	.0470	.1070	.1330	.0490	-.0520	-.1810	-.1580
270.000		1.1980													

X/LT .7449 .8526 .9290

PHI

.000	-.0100	-.0290	.0410
30.000	.0260	.0200	.0510
60.000	.0430	.0850	.0550
90.000			-.1540
120.000	.0600	.3560	.2440
135.000	.0620	.3910	.2630
150.000	.0940	.4050	.2920
165.000		.4130	.1210
180.000	-.0160		

MACH (1) = 1.555

BETAT (2) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5080	1.4940	.7830	.3370	.0240	-.0510	-.1220	-.1040	-.0680	.0250	.1790	.0550	-.0230	-.0470	.0600
30.000			.8260	.3810	.0510	-.0230	-.1060	-.0740	-.0490	.1550	.0590	-.0080	-.0120	.0150	.0170
60.000			.8030	.5570	.0290	-.0260	-.1030	-.0870	.2550	.3750	-.1290	-.1250	-.0070	.0620	.0400
90.000		1.4460	.7260	.2880	-.0230	-.0700	-.1450	-.1300	.5160	-.0680	-.2600	-.2180	-.0100	.0610	.0740
120.000			.6230	.2040	-.0870	-.1220	-.1810	-.1790	.0650	-.0460	-.2690	-.1910	.0060	.0920	.0350
135.000								-.2020		.0200		-.0660		.0990	
150.000			.5340	.1380	-.1290	-.1790	-.2250	-.2160	-.1590	.0660	.1730	-.0300	-.0730	.0150	.0130
165.000				.1070	-.1480	-.1900	-.2470	-.2250	-.0660	.1550	.1730		-.0620		-.0380
180.000	1.5080	1.2370	.4770	.0840	-.1620	-.2020	-.2570	-.2400	.0150	.1400	.1330	.0860	-.0600	-.1610	.0410
270.000		1.2680													

X/LT .7449 .8526 .9290

PHI

.000	.0010	.0060	.0250
30.000	.0120	.0220	.0730
60.000	.0200	.0680	.0600
90.000			-.1530
120.000	.0640	.3340	.2030
135.000	.0790	.3540	.2210
150.000	.0870	.3570	.2510

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1985

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

TRBOT15)

MACH (1) = 1.555

BETAT (3) = -4.239

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3970 .0590

180.000 .0110

MACH (1) = 1.555

BETAT (4) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5270	1.5020	.7940	.3510	.0390	-.0310	-.1080	-.0900	-.0590	-.0040	.2190	.0820	-.0160	-.0500	.0180
30.000			.7660	.3280	.0210	-.0460	-.1230	-.1040	-.0710	.1640	.0360	.0430	-.0160	-.0250	-.0070
60.000			.6980	.2740	-.0200	-.0800	-.1510	-.1370	.1990	.4200	-.1030	-.1160	-.0070	.0490	.0020
90.000	1.3720		.6160	.2040	-.0700	-.1270	-.1920	-.1770	.4540	-.0720	-.3720	-.2660	.0160	.0270	.0180
120.000			.5490	.1400	-.1120	-.1620	-.2190	-.2020	.0490	.0120	-.1900	-.2150	.0340	.0540	-.0450
135.000								-.2150		.1070		-.1080		.0230	
150.000			.4980	.1100	-.1310	-.1810	-.2350	-.2160	.0380	.1210	.1680	-.0210	-.1060	-.0500	.0540
165.000				.0970	-.1400	-.1830	-.2360	-.2180	.0400	.1430	.1820		-.0630		.1640
180.000	1.5270	1.2530	.4840	.0930	-.1420	-.1870	-.2390	-.2210	.0490	.1060	.1980	.1570	-.0580	-.1460	.2060
270.000		1.3770													

X/LT .7449 .8526 .9290

PHI

.000	.0100	.0310	.0320
30.000	.0060	.0280	.0610
60.000	.0330	.0370	.0610
90.000			-.0040
120.000	.0530	.2360	.1150
135.000	.0520	.2460	.1050
150.000	.0340	.2230	.0910
165.000		.1350	-.0090
180.000	.0440		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBOT15)

MACH (1) = 1.355

BETAT (5) = 3.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5160	1.4950	.7930	.3560	.0400	-.0290	-.1050	-.0920	-.0630	-.0270	.1840	.0670	-.0210	-.0560	.0370
30.000			.7010	.2830	-.0110	-.0800	-.1480	-.1360	-.0800	.1420	.1280	.0190	-.0590	-.0530	-.0200
60.000			.5930	.2010	-.0760	-.1370	-.2020	-.1870	.1350	.4340	-.0590	-.0630	.0120	.0130	-.0360
90.000		1.2720	.5150	.1310	-.1240	-.1790	-.2350	-.2180	.3900	-.0780	-.3590	-.2460	-.0210	-.0700	-.0250
120.000			.4610	.0940	-.1460	-.1940	-.2450	-.2260	.0640	.0750	-.0810	-.1710	.0250	-.0020	-.0560
135.000								-.2270		.1110		-.0650		.0010	
150.000			.4560	.0890	-.1480	-.1940	-.2440	-.2240	.0520	.1140	.1110	-.0030	-.1580	-.0790	.0650
165.000				.0880	-.1470	-.1900	-.2410	-.2230	.0610	.1970	.1040		-.1190		.0930
180.000	1.5160	1.2410	.4800	.0920	-.1440	-.1880	-.2420	-.2190	.0540	.1800	.0970	.0930	-.0010	-.1600	.0910
270.000		1.4590													

X/LT .7449 .8526 .9290

PHI

.000	.0090	.0140	.0320
30.000	-.0200	.0180	.0300
60.000	.0060	.0150	.0340
90.000			.0170
120.000	.0260	.0710	.0840
135.000	.0160	.0070	.0870
150.000	-.0010	-.0810	.0810
165.000		-.1230	-.0860
180.000	.0160		

MACH (1) = 1.355

BETAT (6) = 6.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4940	1.4710	.7810	.3550	.0310	-.0370	-.1090	-.0950	-.0670	.0450	.1260	.0400	-.0180	-.0420	.0430
30.000			.6660	.2500	-.0440	-.1090	-.1680	-.1550	-.0990	.1260	.1320	.0100	-.0660	-.0470	-.0400
60.000			.5500	.1470	-.1080	-.1620	-.2250	-.2110	.0810	.3410	-.0260	-.0350	.0200	-.0060	-.0530
90.000		1.2100	.4740	.0790	-.1490	-.1960	-.2480	-.2370	.3370	-.0860	-.3460	-.2250	-.0530	-.1390	-.0470
120.000			.4340	.0560	-.1630	-.2090	-.2560	-.2340	.0420	.0870	-.0260	-.1690	.0000	-.0220	-.0680
135.000								-.2360		.0890		-.0790		-.0290	
150.000			.4330	.0650	-.1640	-.2060	-.2550	-.2340	.0440	.1720	.1260	-.0320	-.1780	-.0970	.0240
165.000				.0710	-.1620	-.2040	-.2540	-.2330	.0260	.2180	.0900		-.1470		.0410
180.000	1.4940	1.2190	.4720	.0890	-.1540	-.1990	-.2510	-.2140	-.0590	.2110	.1420	.0120	-.0750	-.1680	-.1260
270.000		1.4790													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(R80T15)

MACH (1) = 1.555

BETAT (6) = 6.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0140	-.0120	.0590
30.000	-.0430	.0530	.0730
60.000	.0000	.0760	.0690
90.000		.0440	
120.000	.0540	.0980	.0660
135.000	.0380	.0370	.0350
150.000	.0160	-.1190	-.0220
165.000		-.1250	-.1170
180.000	-.0060		

MACH (1) = 1.555

BETAT (7) = 8.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4850	1.4590	.7630	.3460	.0230	-.0410	-.1120	-.1030	-.0740	.0460	.0780	.0140	-.0160	-.0360	.0400
30.000			.6140	.2180	-.0740	-.1330	-.1890	-.1780	-.1170	.1460	.1100	-.0040	-.0650	-.0550	-.0530
60.000			.4950	.1100	-.1400	-.1890	-.2440	-.2080	.0150	.3340	.0210	-.0100	.0130	-.0360	-.0610
90.000		1.1600	.4270	.0470	-.1690	-.2180	-.2690	-.2470	.3380	-.0890	-.3470	-.1950	-.0820	-.1990	.0000
120.000			.3930	.0350	-.1830	-.2210	-.2670	-.2390	.0260	.1120	-.0110	-.1590	-.0310	-.0320	-.0180
135.000							-.2420		.0660		-.0980		-.0430		
150.000			.4000	.0510	-.1820	-.2200	-.2640	-.2350	.0340	.2030	.1430	-.0550	-.2130	-.1170	.0350
165.000				.0630	-.1740	-.2160	-.2540	-.2230	.0030	.1670	.0770		-.1800		.0190
180.000	1.4850	1.2080	.4580	.0870	-.1600	-.2030	-.2510	-.2140	-.0360	.1640	.1100	-.0240	-.1230	-.1610	-.1500
270.000		1.5110													

X/LT .7449 .8526 .9290

PHI

.000	-.0310	.0460	.0560
30.000	.0520	.0440	.0290
60.000	.0520	.0420	.0320
90.000		.0200	
120.000	.0230	.0210	.0460
135.000	.0160	-.0560	-.0170
150.000	.0440	-.2270	-.1090
165.000		-.1740	-.1490
180.000	.0360		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RDOT13)

MACH (2) = 2.000

BETAT (1) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6200	1.5720	.7780	.3680	.0760	.0180	-.0350	-.0310	-.0160	-.0050	.1460	.0720	.0280	.0100	.0580
30.000			.8540	.4160	.1160	.0520	-.0050	.0090	.0180	.2020	.1160	.0250	.0150	.0230	.0390
60.000			.8560	.4120	.1220	.0740	.0010	.0080	.0260	.5380	.0030	-.0400	-.0130	.0240	.0760
90.000		1.5550	.7890	.3560	.0840	.0350	-.0290	-.0260	.3530	.2010	-.2080	-.2110	-.1460	.0950	.1030
120.000			.6590	.2660	.0180	-.0230	-.0780	-.0710	.0430	.1070	-.2420	-.1650	-.0590	.1210	.0530
135.000								-.0970		.0390		-.1200		.1030	
150.000			.5390	.1760	-.0460	-.0760	-.1210	-.1180	-.0820	.0250	.1280	.0680	.0120	.0170	.0720
165.000				.1400	-.0700	-.1000	-.1390	-.1310	-.0870	.0580	.2870		.0320		-.0020
180.000	1.6200	1.3090	.4560	.1150	-.0860	-.1110	-.1510	-.1340	-.0870	.0740	.2800	.0570	.0000	-.0470	-.0720
270.000		1.3050													

X/LT .7449 .8526 .9290

PHI

.000	.0150	.0190	.0140
30.000	.0480	.0440	.0510
60.000	.0620	.0610	.1080
90.000			.0270
120.000	.0980	.2410	.2780
135.000	.0050	.3000	.2470
150.000	.0830	.2590	.3150
165.000		.6030	.1430
180.000	-.0630		

MACH (2) = 2.000

BETAT (2) = -4.210

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6380	1.5780	.7880	.3710	.0800	.0160	-.0310	-.0260	-.0140	.0080	.1830	.1100	.0480	.0110	.0590
30.000			.8230	.3960	.1070	.0400	-.0150	-.0020	.0110	.2010	.0580	.0520	.0290	.0210	.0380
60.000			.7930	.3800	.0910	.0460	-.0140	-.0050	.0050	.5390	.0040	-.0420	-.0220	.0170	.0770
90.000		1.5230	.7180	.3160	.0490	.0090	-.0460	-.0440	.3270	.1970	-.2060	-.2150	-.1220	.0910	.0990
120.000			.6160	.2390	-.0050	-.0380	-.0860	-.0850	.0120	.1080	-.2370	-.1640	-.0660	.1020	.0530
135.000								-.1080		.0350		-.0830		.0860	
150.000			.5300	.1740	-.0510	-.0770	-.1250	-.1230	-.0880	.0610	.2920	.0430	.0250	.0060	.0260
165.000				.1450	-.0690	-.0940	-.1350	-.1330	-.0970	.0830	.2970		.0400		-.0320
180.000	1.6380	1.3300	.4760	.1230	-.0790	-.1040	-.1450	-.1390	-.1040	.1290	.2890	.1650	.0390	-.0420	-.1070
270.000		1.3650													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT15)

MACH (2) = 2.000

BETAT (2) = -4.210

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0260	.0320	.0340
30.000	.0430	.0450	.0480
60.000	.0540	.0450	.0920
90.000			.0230
120.000	.0750	.2120	.2320
135.000	.0540	.2660	.2010
150.000	.0540	.2890	.2010
165.000		.4860	.0790
180.000	.0790		

MACH (2) = 2.000

BETAT (3) = -.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6490	1.5830	.7870	.3790	.0850	.0280	-.0250	-.0210	-.0100	.0120	.1650	.1440	.0820	.0310	.0480
30.000			.7680	.3510	.0680	.0110	-.0370	-.0300	-.0200	.1010	.0570	.0560	.0560	.0300	.0170
60.000			.7080	.2980	.0310	-.0110	-.0670	-.0610	-.0450	.4670	.0270	-.0360	-.0240	.0120	.0700
90.000		1.4560	.6330	.2300	-.0160	-.0490	-.0990	-.0960	.2770	.1800	-.2050	-.2090	-.1230	.0590	.0680
120.000			.5500	.1700	-.0470	-.0810	-.1240	-.1200	-.0130	.1000	-.2300	-.1170	-.0640	.0840	.0370
135.000								-.1280		.0440		-.0330		-.0090	
150.000			.5030	.1330	-.0690	-.1010	-.1430	-.1340	-.1090	.1180	.1970	.0760	.0540	-.0520	-.0110
165.000				.1200	-.0740	-.1040	-.1460	-.1380	-.1040	.1110	.2580		.0580		-.0650
180.000	1.6490	1.3400	.4840	.1220	-.0760	-.1040	-.1470	-.1380	-.1000	.1120	.2720	.0610	.1040	-.0130	-.1030
270.000		1.4490													

X/LT .7449 .8526 .9290

PHI

.000	.0290	.0300	.0300
30.000	.0320	.0370	.0280
60.000	.0290	.0170	.0710
90.000			.0340
120.000	-.0010	.1230	.1430
135.000	.0260	.1630	.1060
150.000	.0990	.1910	.0280
165.000		.1840	-.0780
180.000	.1600		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBOT15)

MACH (2) = 2.000

BETAT (4) = 3.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6460	1.5820	.7910	.3750	.0780	.0200	-.0280	-.0220	-.0110	.0130	.2070	.1200	.0550	.0130	.0540
30.000			.7000	.2960	.0330	-.0260	-.0670	-.0590	-.0140	.1060	-.0040	.0210	.0160	-.0030	-.0060
60.000			.5950	.2190	-.0210	-.0520	-.1050	-.0980	-.0330	.2960	.0660	-.0180	.0020	.0140	.0470
90.000		1.3670	.5150	.1540	-.0640	-.0920	-.1350	-.1270	.2320	.1670	-.1960	-.1970	-.0850	.0500	-.0190
120.000			.4630	.1200	-.0850	-.1100	-.1480	-.1390	.0400	.1430	-.1940	-.0730	-.0510	.0360	-.0200
135.000								-.1460		.0080		.0010		-.0500	
150.000			.4510	.1080	-.0930	-.1140	-.1540	-.1460	.0560	.0900	.2160	.0880	-.0160	-.0930	-.0580
165.000				.1090	-.0910	-.1130	-.1530	-.1440	.0240	.0790	.2640		.0070		-.1510
180.000	1.6460	1.3310	.4770	.1140	-.0870	-.1110	-.1480	-.1410	-.1120	.0710	.2570	.1480	.0430	-.0370	-.0900
270.000		1.5400													

X/LT .7449 .8526 .9290

PHI

.000	.0220	.0250	.0200
30.000	.0090	.0160	.0030
60.000	-.0050	-.0050	.0350
90.000			.0330
120.000	.0040	.0500	.0560
135.000	.0360	.0230	.0080
150.000	.0570	-.0330	-.0840
165.000		-.0140	-.1310
180.000	.0820		

MACH (2) = 2.000

BETAT (4) = 6.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6170	1.5550	.7780	.3760	.0870	.0250	-.0300	-.0200	-.0140	.0000	.1370	.0950	.0330	.0130	.0550
30.000			.6610	.2730	.0230	-.0320	-.0770	-.0710	-.0270	.1420	.0260	.0560	.0300	-.0030	-.0080
60.000			.5430	.1880	-.0350	-.0690	-.1180	-.1100	-.0440	.1180	.0850	-.0030	.0140	.0240	.0230
90.000		1.3010	.4640	.1240	-.0750	-.1060	-.1460	-.1400	.1780	.1700	-.1900	-.1860	-.0660	.0250	-.0550
120.000			.4210	.0950	-.0890	-.1150	-.1530	-.1460	.0190	.1200	-.1850	.0160	-.0640	.0270	-.0510
135.000								-.1470		.0230		-.0080		-.0550	
150.000			.4200	.0950	-.0910	-.1170	-.1530	-.1450	-.0040	.1060	.2070	.0480	-.0420	-.1120	-.0830
165.000				.0990	-.0900	-.1150	-.1540	-.1450	-.0810	.1220	.2310		-.0100		-.1590
180.000	1.6170	1.3130	.4630	.1180	-.0870	-.1140	-.1510	-.1350	-.0870	.0790	.2740	.0610	.0170	-.0380	-.0720
270.000		1.5610													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RDOT15)

MACH (2) = 2.000

BETAT (5) = 6.025

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0150	.0130	.0010
30.000	-.0050	.0010	-.0120
60.000	-.0220	-.0080	.0290
90.000			.0180
120.000	-.0150	.0290	.0260
135.000	.0060	-.0090	-.0280
150.000	.0110	-.0800	-.0450
165.000		-.0930	-.1400
180.000	-.0710		

MACH (2) = 2.000

BETAT (6) = 8.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6060	1.5410	.7670	.3690	.0800	.0190	-.0300	-.0250	-.0140	-.0050	.0480	.0720	.0300	-.0080	.0370
30.000			.6190	.2440	-.0040	-.0590	-.0910	-.0890	-.0500	.1500	.0810	.0520	.0130	-.0150	-.0090
60.000			.4980	.1450	-.0730	-.0950	-.1380	-.1150	-.0520	.0060	.1040	.0250	.0200	.0220	-.0130
90.000		1.2540	.4290	.0850	-.1070	-.1270	-.1620	-.1500	.1380	.1680	-.1800	-.1740	.0530	-.0010	-.1080
120.000			.3920	.0670	-.1140	-.1300	-.1670	-.1560	.0280	.1170	-.1420	-.0230	.0230	-.0090	-.1050
135.000								-.1560		.0130		-.0170		-.0500	
150.000			.3930	.0800	-.1140	-.1320	-.1650	-.1450	-.0380	.1040	.2120	.0090	-.0770	-.1380	-.0900
165.000				.0890	-.1050	-.1230	-.1570	-.1280	-.0530	.0730	.1920		-.0550		-.1640
180.000	1.6060	1.3010	.4430	.1090	-.0910	-.1120	-.1500	-.1250	-.0800	.0590	.2520	-.0320	-.0190	-.0980	-.0640
270.000		1.5930													

X/LT .7449 .8526 .9290

PHI

.000	-.0010	-.0030	-.0250
30.000	-.0230	-.0230	-.0320
60.000	-.0310	-.0080	.0100
90.000			-.0130
120.000	-.0260	.0090	.0760
135.000	-.0410	-.0460	.0080
150.000	-.0280	-.1160	-.1040
165.000		-.0840	-.1180
180.000	-.0610		

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBOT16) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUCFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.350

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4460	1.4820	.8170	.3850	.0660	-.0120	-.0830	-.0680	-.0430	.0630	.1280	.0340	.0030	-.0100	.0790
30.000			.9340	.4760	.1300	.0530	-.0340	-.0070	.0110	.2360	.0360	-.0420	.0240	.0610	.0740
60.000			.9380	.4760	.1290	.0550	-.0310	-.0080	.3700	.3930	-.0920	-.0550	.0300	.0740	.1040
90.000		1.4820	.8390	.3790	.0580	-.0090	-.0870	-.0810	.5790	-.0740	-.3630	-.2630	-.0660	.0730	.1510
120.000			.6620	.2470	-.0480	-.1050	-.1700	-.1610	.0700	-.1370	-.3160	-.2000	.0260	.1090	.1020
135.000								-.2070		-.1260		-.1970		.1170	
150.000			.5030	.1260	-.1420	-.1860	-.2440	-.2400	-.1380	-.0260	.0370	.0260	-.0570	.0570	.0620
165.000			.0740	-.1710	-.2140	-.2680	-.2560	-.0860	.1180	.1510			-.0500		.0180
180.000	1.4460	1.1380	.4020	.0410	-.1880	-.2280	-.2790	-.2620	-.0150	.1170	.0800	-.0220	-.0960	-.1560	-.1160
270.000		1.1280													

X/LT .7449 .8526 .9290

PHI

.000	-.0030	.0530	.0580
30.000	.0590	.0320	.1120
60.000	.0750	.0940	.1010
90.000			-.1160
120.000	.1430	.4040	.2960
135.000	.1440	.4160	.2950
150.000	.1410	.4100	.3040
165.000		.3410	.1580
180.000	.0600		

MACH (1) = 1.555

BETAT (2) = -6.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4630	1.4990	.8300	.3870	.0610	-.0130	-.0870	-.0720	-.0370	.0720	.1670	.0660	.0100	-.0090	.0940
30.000			.9040	.4450	.0990	.0240	-.0560	-.0350	-.0140	.2020	.0720	.0050	.0260	.0510	.0680
60.000			.8830	.4190	.0840	.0190	-.0650	-.0450	.3260	.4060	-.0850	-.0630	.0240	.0680	.0820
90.000		1.4550	.7770	.3270	.0080	-.0500	-.1210	-.1160	.5450	-.0760	-.3410	-.2590	-.0760	.0670	.1100
120.000			.6250	.2070	-.0830	-.1310	-.1930	-.1870	.0510	-.1400	-.3170	-.2570	-.0060	.0950	.0660
135.000								-.2160		-.1080		-.1580		.0880	
150.000			.4970	.1070	-.1550	-.1920	-.2490	-.2410	-.0860	.0250	.0800	-.0060	-.0340	.0100	.0220

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBT16)

MACH (1) = 1.555

BETAT (2) = -6.295

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9297
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FBI

.0000	.0100	-.0110	.0120
30.000	.0520	.0250	.0690
60.000	.0650	.0830	.0780
90.000			-.1310
120.000	.0950	.3670	.2620
135.000	.1110	.3820	.2620
150.000	.1280	.3690	.2820
165.000		.3280	.1440
180.000	.0110		

MACH (1) = 1.555

BETAT (3) = -4.247

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9290
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PHI

.000	.0190	.0150	.0230
30,000	.0360	.0270	.0840
60,000	.0440	.0760	.0770
90,000			-.1310
120,000	.1050	.3430	.2210
135,000	.1130	.3560	.2210
150,000	.1140	.3370	.2780

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RDOT16)

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3310 .1260

180.000 .0360

MACH (1) = 1.555

BETAT (4) = -.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4960	1.5190	.8420	.3970	.0710	-.0020	-.0790	-.0610	-.0310	.0270	.2250	.1010	.0170	-.0100	.0480
30.000			.8040	.3610	.0440	-.0250	-.0980	-.0780	-.0540	.1930	.0590	.0570	.0120	.0020	.0180
60.000			.7100	.2830	-.0130	-.0680	-.1420	-.1260	.2320	.4820	-.0490	-.0520	.0190	.0430	.0200
90.000		1.3380	.6050	.1890	-.0840	-.1340	-.1970	-.1860	.4570	-.0880	-.3510	-.2990	-.0620	.0270	.0200
120.000			.5040	.1140	-.1350	-.1780	-.2330	-.2180	.0240	-.0800	-.2350	-.2530	.0300	.0550	-.0500
135.000							-.2280			.0500		-.1220		.0170	
150.000			.4510	.0720	-.1620	-.2010	-.2480	-.2280	.0270	.0730	.1380	-.0390	-.1080	-.0550	.1120
165.000				.0600	-.1670	-.2010	-.2520	-.2340	.0140	.1060	.1810		-.0650		.1520
180.000	1.4960	1.1840	.4330	.0570	-.1700	-.2030	-.2570	-.2340	.0200	.0920	.2610	.1380	-.0600	-.1580	.1850
270.000		1.3520													

X/LT .7449 .8526 .9290

PHI

.000 .0260 .0370 .0300

30.000 .0160 .0240 .0580

60.000 .0530 .0510 .0650

90.000 .0670 .2540 .1410

120.000 .0720 .2540 .1430

135.000 .0760 .2340 .1740

150.000 .1260 .0670

165.000 .0770

180.000

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 1995

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RBOY16)

MACH (1) = 1.555

BETAT (5) = 4.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4920	1.5160	.8450	.4070	.0750	.0000	-.0750	-.0610	-.0370	.0040	.2210	.0930	.0070	-.0150	.0630
30.000			.7380	.3170	.0080	-.0620	-.1300	-.1170	-.0840	.1670	.1470	.0430	-.0230	-.0160	.0020
60.000			.6120	.2040	-.0760	-.1290	-.1960	-.1800	.1520	.5210	-.0060	-.0030	.0370	.0190	-.0180
90.000		1.2520	.5060	.1210	-.1380	-.1870	-.2400	-.2250	.3610	-.0940	-.3310	-.2700	-.1210	-.0750	-.0390
120.000			.4320	.0670	-.1660	-.2090	-.2570	-.2390	.0400	-.0120	-.1230	-.1990	.0130	.0000	-.0380
135.000								-.2430		.0640		-.0840		-.0160	
150.000			.4150	.0520	-.1700	-.2090	-.2580	-.2400	.0340	.0990	.0990	-.0160	-.1620	-.1100	.0980
165.000				.0480	-.1710	-.2060	-.2570	-.2450	.0190	.1310	.1010		-.0980		.1260
180.000	1.4920	1.1810	.4330	.0510	-.1720	-.2060	-.2550	-.2400	.0150	.1630	.1120	.1240	-.0120	-.1820	.1470
270.000		1.4400													

X/LT .7449 .8526 .9290

PHI

.000	.0260	.0190	.0260
30.000	-.0110	.0110	.0310
60.000	.0070	.0250	.0410
90.000			.0090
120.000	.0480	.0990	.1110
135.000	.0440	.0260	.0980
150.000	.0300	-.0520	.0300
165.000		-.0770	-.0750
180.000	.0480		

MACH (1) = 1.555

BETAT (6) = 6.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4710	1.4930	.8350	.3990	.0700	-.0040	-.0760	-.0610	-.0360	.0670	.1560	.0710	.0120	-.0080	.0850
30.000			.7030	.2800	-.0190	-.0870	-.1460	-.1330	-.0920	.1490	.1510	.0380	-.0250	-.0110	-.0200
60.000			.5590	.1520	-.1020	-.1540	-.2170	-.2030	.0510	.3950	.0310	.0210	.0440	.0060	-.0270
90.000		1.1890	.4580	.0720	-.1580	-.2030	-.2590	-.2480	.3620	-.1070	-.3200	-.2350	-.1400	-.1470	-.0580
120.000			.3990	.0390	-.1800	-.2170	-.2650	-.2450	.0180	.0020	-.0620	-.1610	.0030	-.0230	-.0090
135.000								-.2450		.0960		-.1010		-.0400	
150.000			.3930	.0370	-.1800	-.2190	-.2640	-.2440	.0240	.1190	.1000	-.0390	-.1940	-.1160	.0530
165.000				.0410	-.1840	-.2170	-.2660	-.2480	.0200	.2000	.0670		-.1340		.0650
180.000	1.4710	1.1630	.4240	.0580	-.1810	-.2170	-.2620	-.2420	-.0440	.2650	.1300	.0230	-.0630	-.1700	-.0980
270.000		1.4620													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO116)

MACH (1) = 1.555

BETAT (6) = 6.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	.0100	.0050	.0240
30.000	-.0330	.0200	.0780
60.000	.0060	.0870	.0790
90.000			.0480
120.000	.0770	.0980	.0650
135.000	.0870	.0460	.0380
150.000	.0830	-.1000	-.0250
165.000		-.1400	-.0990
180.000	.0220		

MACH (1) = 1.555

BETAT (7) = 8.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4560	1.4730	.8140	.3910	.0630	-.0090	-.0800	-.0690	-.0440	.0870	.0950	.0420	.0150	-.0030	.0740
30.000			.6470	.2490	-.0490	-.1100	-.1700	-.1580	-.1130	.1700	.1340	.0220	-.0240	-.0250	-.0340
60.000			.5000	.1160	-.1330	-.1810	-.2390	-.2050	.0280	.3270	.0820	.0490	.0280	-.0250	-.0340
90.000		1.1440	.4110	.0450	-.1840	-.2250	-.2730	-.2550	.3500	-.1140	-.3130	-.2070	-.1460	-.1840	.0470
120.000			.3630	.0100	-.1940	-.2300	-.2710	-.2460	.0110	.0220	-.0310	-.1430	-.0210	.0010	.0530
135.000								-.2470		.0760		-.1070		-.0490	
150.000			.3650	.0200	-.1910	-.2280	-.2730	-.2430	.0250	.1720	.1280	-.0510	-.2180	-.1280	.0820
165.000				.0260	-.1890	-.2290	-.2630	-.2380	.0040	.1510	.0820		-.1750		.0870
180.000	1.4560	1.1520	.4020	.0420	-.1790	-.2210	-.2610	-.2320	-.0250	.1270	.0980	-.0130	-.1050	-.1590	-.1280
270.000		1.4840													

X/LT	.7449	.8526	.9290
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PHI			
.000	-.0070	.0550	.0540
30.000	.0600	.0390	.0220
60.000	.0670	.0490	.0370
90.000			.0250
120.000	.0430	.0270	.0320
135.000	.0500	-.0500	-.0260
150.000	.0940	-.1880	-.1070
165.000		-.2320	-.1160
180.000	.0690		

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RDOT16)

MACH (2) = 2.000

BETAT (1) = -8.340

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5960	1.5980	.0000	.0000	.1110	.0490	-.1750	.7570	.2620	-.0210	.0680	.3890	.2050	-.0640	-.2270
30.000			.0000	.4910	.1670	.1000	-.2170	.8240	.3690	.1250	.0110	.6590	.4970	-.0640	-.0260
60.000			.0000	.4890	.1700	-.1890	-.2060	.8110	.4160	.4100	.0780	.7490	.6230	.0830	-.0360
90.000		1.5870	.0000	.3990	.1050	-.1930	1.2870	.7680	.4140	.4930	.2520	.0150	.5930	.1360	-.0060
120.000			.0000	.2770	.0150	-.1930	1.0620	.6520	.2360	.4160	.2710	-.0210	.4280	.2040	-.0400
135.000								.4800		.3820		-.0170		.0640	
150.000			.0000	.1590	-.0650	-.1920	1.1290	.3660	.1430	.2160	.2720	.1620	.5820	-.1040	-.0800
165.000				.1110	-.0940	-.1660	.7130	.2020	.0580	.1290	.2350		.1230		-.1130
180.000	1.5960	.0000	.0000	.0790	-.1100	-.1900	.6710	.0860	.0200	.0530	.2620	.1890	-.0490	-.0890	-.0480
270.000		.0000													

X/LT .7449 .8526 .9290

PHI															
.000	-.1910	-.0780	-.1140												
30.000	-.0570	-.2730	-.1050												
60.000	-.0540	-.0310	-.2450												
90.000			-.0220												
120.000	-.1010	.0860	.1450												
135.000	-.1230	-.0150	.0660												
150.000	-.1200	-.0420	.0110												
165.000		-.1380	-.0790												
180.000	-.1160														

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6030	1.5980	.8340	.4140	.1100	.0470	-.0090	-.0020	.0100	.0150	.1590	.1030	.0450	.0340	.1000
30.000			.9080	.4620	.1500	.0820	.0240	.0350	.0470	.2420	.1350	.0660	.0490	.0590	.0630
60.000			.8820	.4390	.1450	.0900	.0200	.0220	.0440	.6040	.0490	.0080	.0290	.0560	.0930
90.000		1.5490	.7740	.3460	.0800	.0330	-.0320	-.0260	.3790	.1830	-.1830	-.1800	-.1430	.0330	.0780
120.000			.6210	.2350	.0000	-.0400	-.0920	-.0850	.0210	.0220	-.2750	-.2510	-.1310	.0740	.0540
135.000								-.1130		-.0030		-.1480		.0770	
150.000			.4910	.1400	-.0710	-.0980	-.1400	-.1330	-.1120	-.0080	.0290	.0430	-.0070	.0270	.0750
165.000				.1050	-.0940	-.1170	-.1540	-.1360	-.0790	.0580	.2480		.0340		.0160
180.000	1.6030	1.2610	.4110	.0820	-.1060	-.1270	-.1620	-.1350	-.0580	.0580	.2760	.0190	-.0010	-.0540	-.0680
270.000		1.2940													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT16)

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0410	.0410	.0360
30.000	.0760	.0740	.0770
60.000	.0780	.0760	.1210
90.000			.0570
120.000	.1120	.3000	.2810
135.000	.1020	.3150	.2660
150.000	.0980	.2650	.3490
165.000		.6160	.1850
180.000	-.0610		

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6180	1.6080	.6430	.4280	.1200	.0560	-.0030	.0030	.0190	.0320	.1650	.1380	.0770	.0390	.0980
30.000			.8720	.4470	.1430	.0770	.0180	.0270	.0440	.2520	.0710	.0930	.0610	.0560	.0680
60.000			.0210	.4030	.1100	.0710	.0070	.0090	.0220	.6220	.0520	-.0010	.0200	.0440	.0880
90.000		1.5130	.7170	.3180	.0620	.0160	-.0480	-.0430	.3530	.1770	-.1820	-.1830	-.1450	.0500	.1000
120.000			.5810	.2160	-.0110	-.0490	-.1040	-.1010	.0090	.0290	-.2640	-.2470	-.1190	.0730	.0510
135.000								-.1260		.0050		-.1420		.0720	
150.000			.4770	.1410	-.0700	-.1030	-.1410	-.1380	-.1090	.0240	.1350	.0290	.0170	.0040	.0260
165.000			.1130	-.0850	-.1130	-.1540	-.1460	-.1000	.0950	.2340			.0310		-.0190
180.000	1.6180	1.2740	.4240	.0950	-.0950	-.1200	-.1600	-.1520	-.0820	.1310	.2900	.0910	.0270	-.0440	-.0910
270.000		1.3490													

X/LT .7449 .8526 .9290

PHI

.000	.0500	.0500	.0550
30.000	.0670	.0700	.0670
60.000	.0710	.0580	.1060
90.000			.0500
120.000	.0710	.2460	.2450
135.000	.0610	.2850	.2250
150.000	.0580	.2990	.2210
165.000		.5130	.0930
180.000	.0840		

AMES 97-707 1A9 OCA + S3 + T9 EXTERNAL TANK

(RDOT16)

MACH (2) = 2.000

BETAT (4) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6370	1.6170	.8510	.4420	.1300	.0670	.0110	.0170	.0260	.0440	.1980	.1620	.1030	.0570	.0780
30.000			.8300	.4020	.1100	.0460	-.0040	.0010	.0140	.1470	.0830	.0830	.0750	.0530	.0440
60.000			.7380	.3340	.0560	.0110	-.0480	-.0410	-.0270	.5230	.0710	.0030	.0140	.0380	.0890
90.000		1.4560	.6270	.2360	-.0040	-.0440	-.0970	-.0890	.3060	.1570	-.1810	-.1790	-.1090	.0960	.0710
120.000			.5160	.1680	-.0550	-.0870	-.1330	-.1240	-.0170	.0260	-.2580	-.2470	-.0690	.0630	.0050
135.000								-.1370		.0150		-.0270		.0600	
150.000			.4560	.1230	-.0830	-.1090	-.1470	-.1390	-.0980	.1010	.2170	.0590	.0040	-.0770	-.0180
165.000				.1090	-.0890	-.1120	-.1500	-.1410	.0200	.0650	.2480		.0340		-.0590
180.000	1.6370	1.2920	.4390	.1010	-.0900	-.1120	-.1520	-.1420	.0500	.0830	.2950	.0010	.0830	-.0040	-.1200
270.000		1.4380													

X/LT .7449 .8526 .9290

PHI															
.000	.0480	.0470	.0460												
30.000	.0530	.0510	.0390												
60.000	.0410	.0310	.0830												
90.000			.0590												
120.000	.0230	.1430	.1540												
135.000	.0060	.1920	.1110												
150.000	.0800	.2050	.0520												
165.000		.1980	-.0470												
180.000	.1690														

MACH (2) = 2.000

BETAT (5) = 3.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6400	1.6210	.8630	.4430	.1190	.0560	.0040	.0090	.0220	.0410	.2170	.1440	.0720	.0430	.0830
30.000			.7620	.3430	.0610	.0010	-.0430	-.0370	.0110	.1460	.0350	.0500	.0450	.0290	.0230
60.000			.6310	.2370	-.0110	-.0430	-.0920	-.0900	-.0130	.2050	.1110	.0240	.0400	.0410	.0570
90.000		1.3660	.5220	.1510	-.0650	-.0920	-.1350	-.1270	.2080	.1440	-.1670	-.1640	-.1420	-.0120	-.0460
120.000			.4540	.1020	-.0960	-.1170	-.1560	-.1420	-.0220	.0620	-.2290	-.1540	-.0660	.0390	-.0280
135.000								-.1480		.0220		.0700		-.0670	
150.000			.4300	.0890	-.1050	-.1220	-.1570	-.1460	.0340	.0890	.1940	.0500	-.0180	-.1110	-.0720
165.000				.0850	-.1070	-.1220	-.1570	-.1470	.0320	.0820	.2290		.0270		-.1580
180.000	1.6400	1.3010	.4400	.0900	-.1000	-.1190	-.1580	-.1430	-.0550	.0890	.2610	.1220	.0540	-.0420	-.0950
270.000		1.5290													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBT16)

MACH (2) = 2.000

BETAT (5) = 3.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0460	.0440	.0470
30.000	.0270	.0380	.0240
60.000	.0190	.0160	.0450
90.000			.0480
120.000	.0420	.0750	.0650
135.000	.0540	.0460	.0150
150.000	.0700	-.0040	-.0700
165.000		-.0110	-.1200
180.000	.0800		

MACH (2) = 2.000

BETAT (6) = 6.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6150	1.5960	.8460	.4290	.1220	.0560	-.0040	.0040	.0120	.0240	.1270	.1100	.0430	.0300	.0860
30.000			.7130	.3110	.0430	-.0130	-.0610	-.0570	-.0180	.1660	.0720	.0800	.0460	.0180	.0170
60.000			.5030	.1060	-.0350	-.0700	-.1190	-.1110	-.0400	.0260	.1270	.0400	.0490	.0510	.0370
90.000		1.3040	.4600	.1190	-.0880	-.1160	-.1570	-.1490	.1470	.1410	-.1590	-.1570	-.1140	.0440	-.0920
120.000			.4010	.0820	-.1070	-.1320	-.1680	-.1570	-.0230	.0630	-.2140	-.0800	.0140	.0220	-.0810
135.000								-.1570		.0370		-.0250		-.0280	
150.000			.4010	.0730	-.1080	-.1310	-.1660	-.1560	.0080	.0860	.1880	.0300	-.0480	-.1210	-.0770
165.000				.0770	-.1070	-.1290	-.1660	-.1510	-.0430	.0810	.2020		-.0150		-.1610
180.000	1.6150	1.2740	.4230	.0880	-.1020	-.1250	-.1560	-.1340	-.0590	.0570	.2480	.0590	.0180	-.0460	-.0650
270.000		1.5550													

X/LT .7449 .8526 .9290

PHI

.000	.0380	.0360	.0240
30.000	.0090	.0190	.0060
60.000	-.0050	.0140	.0370
90.000			.0100
120.000	.0230	.0470	.0370
135.000	.0120	.0150	-.0150
150.000	.0160	-.0580	-.0340
165.000		-.0840	-.1270
180.000	-.0710		

PAGE 2001

(RBT16)

BETAT (7) = 8.115

DEPENDENT VARIABLE CF

.000	.0200	.0170	.0050
30.000	-.0100	-.0070	-.0150
60.000	-.0090	.0000	.0210
90.000			.0160
120.000	.0020	.0190	.0960
135.000	-.0270	-.0330	.0180
150.000	-.0240	-.0870	-.0840
165.000		-.0230	-.1050
180.000	-.0630		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT17) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEVEN = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.410

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4420	1.1520	.4120	.0560	-.1860	-.2340	-.2740	-.2530	-.2130	.0490	.0240	-.1270	-.1850	-.1300	-.0180
30.000			.5080	.1260	-.1380	-.1930	-.2430	-.2260	-.1900	-.1250	-.3150	-.2800	-.0990	-.0920	-.1120
60.000			.6760	.2500	-.0450	-.0970	-.1680	-.1560	.1230	-.1290	-.4260	-.2650	-.2020	-.1530	.0050
90.000		1.4010	.8400	.3860	.0580	.0000	-.0850	-.0720	.6000	-.1140	-.3960	-.1010	-.1450	-.1310	-.0290
120.000			.9280	.4720	.1270	.0600	-.0240	-.0120	.3560	.3800	.0610	.2380	.2330	.2400	.0320
135.000								-.0110		.4010		.1230		.1770	
150.000			.9230	.4670	.1230	.0550	-.0270	-.0200	.0130	.4930	.3020	.1300	.2000	.0930	.0820
165.000			.4250	.0910	.0310	-.0520	-.0420	-.0110	.5870	.2770		.0720		.0800	
180.000	1.4420	1.4580	.8070	.3680	.0480	-.0080	-.0900	-.0780	-.0480	.6290	.0870	-.0420	-.0950	.0850	-.0250
270.000		1.1100													

X/LT .7449 .8526 .9290

PHI

.000	.0420	.0260	.0060
30.000	-.0430	-.0030	-.0030
60.000	-.0250	-.0760	-.0380
90.000			-.1890
120.000	.1270	.2530	.1290
135.000	.0630	.3080	.1190
150.000	.0370	.2880	.1070
165.000		.4800	.1060
180.000	-.1680		

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4730	1.1640	.4170	.0500	-.1830	-.2300	-.2710	-.2480	-.1960	.0590	.0350	-.1100	-.1890	-.1400	-.0290
30.000			.4920	.1070	-.1500	-.2040	-.2540	-.2360	-.1440	-.1220	-.2880	-.2600	-.0930	-.0790	-.0930
60.000			.6280	.2040	-.0760	-.1280	-.1970	-.1800	.0530	-.1460	-.4370	-.2910	-.1960	-.1400	-.0220
90.000		1.4680	.7830	.3270	.0180	.0000	-.1200	-.1090	.5730	-.1140	-.3920	-.1250	-.1690	.0210	-.0770
120.000			.8870	.4250	.0880	.0240	-.0590	-.0430	.3370	.4040	.0790	.2010	.1870	.1830	.0180
135.000								-.0350		.4420		.1010		.1380	
150.000			.9050	.4460	.1050	.0390	-.0420	-.0350	.0220	.5890	.2710	.1140	.1730	.0940	.0880

PAGE 2003

(RBO17)

BETAT (2) = -6.360

DEPENDENT VARIABLE CP

.0000	.0090	.0340	.0280
30.000	-.0910	-.0200	.0210
60.000	-.0270	-.0850	-.0490
90.000			-.1960
120.000	.0450	.1890	.0760
135.000	.0190	.2360	.0580
150.000	-.0170	.2250	.0480
165.000		.3920	.0590
180.000	-.1770		

$$\text{BETAT (3)} = -4.377$$

DEPENDENT VARIABLE CP

.000	.0140	-.0080	-.0100
30.000	-.0500	-.0290	-.0190
60.000	.0030	-.0360	-.0170
90.000			-.1190
120.000	-.0160	.1460	-.0320
135.000	-.0310	.1820	.0090
150.000	-.0490	.1930	-.0540

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBT17)

MACH (1) = 1.555

BETAT (3) = -4.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2790 .0060

180.000 -.1390

MACH (1) = 1.555

BETAT (4) = -.180

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5050 1.1630 .4290 .0660 -.1700 -.2170 -.2570 -.2280 -.1710 .0800 .0650 -.0760 -.1950 -.1250 -.0200

30.000 .4450 .0780 -.1630 -.2100 -.2550 -.2300 -.0770 -.0770 -.1210 -.1950 -.0730 -.1160 -.0510

60.000 .5130 .1180 -.1320 -.1730 -.2340 -.2150 .0060 -.1240 -.4390 -.2520 -.1620 .0000 -.0470

90.000 1.3540 .6100 .1980 -.0800 .0000 -.1950 -.1820 .5060 -.0940 -.3070 -.1490 -.2100 -.0080 -.1870

120.000 .7190 .2910 -.0140 -.0690 -.1340 -.1260 .2120 .5010 .1320 .0900 .0800 .1480 -.0360

135.000 .3700 .0910 .0910

150.000 .8200 .3730 .0460 -.0140 -.0870 -.0750 -.0480 .4210 .2210 .1100 .1980 .1040 -.0090

165.000 .3900 .0610 .0030 -.0730 -.0640 -.0330 .4130 .1600 .1650

180.000 1.5050 1.5300 .8550 .3920 .0660 .0080 -.0710 -.0590 -.0300 .4760 .0670 .1440 .0750 .1850 -.0360

270.000 1.3410

X/LT .7449 .8526 .9290

PHI

.000 .0380 .0000 -.0020

30.000 .0050 -.0100 -.0040

60.000 .0000 -.0130 .0100

90.000 -.0100

120.000 -.0890 .0760 -.0460

135.000 -.0910 .1040 -.0790

150.000 -.0810 .1320 -.1400

165.000 .1490 -.1420

180.000 -.0770

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBDT17)

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5090	1.1930	.4430	.0690	-.1670	-.2150	-.2560	-.2260	-.1700	.0770	.0650	-.0870	-.1990	-.1340	-.0030
30.000			.4270	.0550	-.1720	-.2200	-.2600	-.2300	-.0430	-.0440	-.0200	-.1300	-.1150	-.1240	-.0360
60.000			.4470	.0730	-.1620	-.2020	-.2590	-.2300	-.0450	-.0710	-.3960	-.1440	-.1960	-.0030	-.0520
90.000		1.2750	.5140	.1210	-.1320	.0000	-.2380	-.2230	.3680	-.0790	-.1970	-.1740	-.1760	-.0590	-.0960
120.000			.6120	.2060	-.0750	-.1250	-.1880	-.1790	.1890	.4010	.1660	.0840	.0780	.1010	-.0640
135.000								-.1520		.2970		.1330		.0550	
150.000			.7460	.3120	.0040	-.0500	-.1240	-.1150	.1610	.3540	.1350	.0660	.1160	.0680	-.0600
165.000				.3540	.0400	-.0150	-.0920	-.0840	-.0610	.3800	.0530		.0600		-.0770
180.000	1.5090	1.5270	.6530	.3830	.0640	.0070	-.0720	-.0620	-.0360	.4820	.0610	.0540	.0360	.1780	-.0290
270.000		1.4370													

X/LT .7449 .8526 .9290

PHI

.000	.0220	-.0110	-.0150
30.000	.0090	-.0110	.0360
60.000	-.0090	-.0180	.0620
90.000			-.0110
120.000	-.1260	-.0050	-.1160
135.000	-.1270	-.0570	-.1820
150.000	-.1380	-.1160	-.2130
165.000		-.1380	-.2420
180.000	-.1220		

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4910	1.1750	.4400	.0700	-.1730	-.2220	-.2620	-.2370	-.1860	.0760	.0560	-.1040	-.1920	-.1250	-.0190
30.000			.4120	.0410	-.1850	-.2280	-.2630	-.2390	-.0360	-.0270	-.0060	-.1160	-.1240	-.1460	-.0340
60.000			.4180	.0380	-.1800	-.2120	-.2630	-.2330	-.0360	-.0430	-.3690	-.1740	-.1560	-.0290	-.0370
90.000		1.2080	.4750	.0750	-.1620	.0000	-.2540	-.2340	.3510	-.0880	-.0920	-.1950	-.1010	-.0700	-.1740
120.000			.5650	.1550	-.1050	-.1480	-.2110	-.2030	.1460	.3870	.1730	.0690	.0260	.0910	-.0750
135.000								-.1740		.3520		.0950		.0530	
150.000			.7080	.2760	-.0270	-.0760	-.1470	-.1350	-.0610	.4640	.0710	.0290	.0840	.0840	-.0910
165.000				.3310	.0200	-.0380	-.1100	-.0940	-.0610	.6010	.0010		.0030		-.1020
180.000	1.4910	1.5090	.8390	.3820	.0570	-.0020	-.0800	-.0620	-.0290	.7100	.0620	-.0030	-.0140	.1920	-.0200
270.000		1.4630													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBT17)

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0080	.0180	.0220
30.000	.0470	.0330	.0230
60.000	.0510	.0250	.0290
90.000			-.0360
120.000	-.1440	-.0090	-.1000
135.000	-.1510	-.0940	-.1240
150.000	-.1800	-.2410	-.1700
165.000		-.1730	-.1870
180.000	-.1750		

MACH (1) = 1.555

BETAT (7) = 8.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4780	1.1630	.4200	.0570	-.1770	-.2250	-.2710	-.2490	-.2140	.0680	.0340	-.1240	-.1730	-.1260	-.0090
30.000			.3720	.0200	-.1950	-.2400	-.2770	-.2420	-.0220	-.0170	-.0370	-.1250	-.1680	-.1440	.0070
60.000			.3710	.0150	-.1940	-.2260	-.2700	-.2420	-.0430	-.0220	-.3370	-.1930	-.1040	-.0070	.0320
90.000		1.1610	.4150	.0390	-.1790	.0000	-.2680	-.2500	.3260	-.0910	-.0720	-.2230	-.0850	-.0450	-.0620
120.000			.5020	.1140	-.1340	-.1780	-.2370	-.2210	.1240	.3340	.1770	.0500	.0070	.0950	-.0920
135.000								-.1980		.4090		.0600		.0440	
150.000			.6540	.2440	-.0490	-.1010	-.1690	-.1570	-.0890	.4090	.0310	-.0380	.0240	.0710	-.1320
165.000				.3100	.0050	-.0560	-.1270	-.1170	-.0940	.5890	-.0420		-.0460		-.1320
180.000	1.4780	1.5030	.8180	.3710	.0540	-.0070	-.0850	-.0710	-.0460	.7390	.0790	-.0570	-.1170	.1010	-.0230
270.000		1.4930													

X/LT .7449 .8526 .9290

PHI

.000	.0410	.0210	.0140
30.000	.0260	-.0090	-.0200
60.000	.0360	-.0050	.0000
90.000			-.0470
120.000	-.0860	-.0220	-.1610
135.000	-.1020	-.1340	-.2150
150.000	-.1700	-.2230	-.2160
165.000		-.2470	-.2480
180.000	-.1810		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2007

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO117)

MACH (2) = 2.000

BETAT (1) = -8.380

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5910	1.2640	.4020	.0910	-.1090	-.1460	-.1730	-.1700	-.1480	-.0560	.0770	-.0270	-.0980	-.1050	-.0500
30.000			.5010	.1550	-.0630	-.1110	-.1450	-.1380	-.1230	-.0200	-.1860	-.2370	-.1470	-.0780	-.0880
60.000			.6640	.2710	.0150	-.0280	-.0840	-.0800	.0520	.0340	-.2760	-.2380	-.1470	-.1070	-.0530
90.000		1.5860	.8310	.4000	.1040	.0000	-.0120	-.0070	.4090	.1430	-.2070	-.1810	-.0190	-.0400	-.0460
120.000			.9270	.4830	.1680	.1110	.0370	.0420	.0920	.5740	.0370	.1480	.2850	.2490	.1580
135.000								.0440		.1890		.1950		.2500	
150.000			.9280	.4850	.1670	.1130	.0370	.0400	.0550	.2560	.4770	.2520	.1780	.1950	.0890
165.000				.4460	.1420	.0910	.0200	.0240	.0340	.3810	.4100		.1050		.0760
180.000	1.5910	1.5740	.8210	.3930	.1060	.0600	-.0080	-.0040	.0000	.3210	.2710	.1510	-.0010	-.0190	-.0190
270.000		1.2390													

X/LT .7449 .8526 .9290

PHI

.000	-.0480	-.0140	-.0110
30.000	-.1090	-.1030	-.0740
60.000	-.0390	-.0720	-.0490
90.000			.0170
120.000	.0750	.1980	.2270
135.000	.0760	.2860	.1140
150.000	.0930	.3000	.1170
165.000		.5690	.1070
180.000	.0000		

MACH (2) = 2.000

BETAT (2) = -6.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5970	1.2590	.4010	.0930	-.1130	-.1500	-.1690	-.1620	-.1350	-.0340	.0780	-.0100	-.0870	-.1170	-.0490
30.000			.4790	.1300	-.0800	-.1230	-.1480	-.1410	-.1280	-.0540	-.1640	-.2240	-.1380	-.0660	-.0650
60.000			.6120	.2240	-.0140	-.0430	-.0980	-.0920	.0110	.0190	-.2760	-.2450	-.1330	-.2020	-.0170
90.000		1.5460	.7620	.3380	.0690	.0000	-.0380	-.0260	.3820	.1390	-.2030	-.1680	-.0450	-.0520	-.0590
120.000			.8710	.4240	.1280	.0880	.0160	.0210	.0700	.5960	.0460	.1270	.2470	.2140	.1290
135.000								.0330		.2360		.1490		.2230	
150.000			.9020	.4530	.1420	.0940	.0250	.0340	.0620	.2380	.4520	.2020	.1610	.1720	.0710
165.000				.4310	.1280	.0830	.0140	.0190	.0440	.3050	.4190		.0950		.1080
180.000	1.5970	1.5800	.8290	.3950	.1000	.0610	-.0080	-.0010	.0180	.3140	.2740	.1910	.0200	.0060	.0570
270.000		1.2750													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBO117)

MACH (2) = 2.000

BETAT (2) = -6.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0240	-.0080	-.0080
30.000	-.0960	-.0730	-.0320
60.000	-.0330	-.0590	-.0440
90.000			.0440
120.000	.0430	.1240	.1670
135.000	.0580	.2380	.0780
150.000	.0920	.2790	.0740
165.000		.4640	.0590
180.000	.0030		

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6260	1.2780	.4130	.1000	-.1050	-.1420	-.1660	-.1560	-.1210	.0280	.0710	.0090	-.0770	-.1260	-.0610
30.000			.4660	.1270	-.0790	-.1250	-.1520	-.1400	-.1220	-.0600	-.1440	-.2030	-.1350	-.0610	-.0630
60.000			.5750	.1080	-.0300	-.0620	-.1080	-.1000	-.0060	.0130	-.2820	-.2570	-.2050	-.1420	-.0100
90.000		1.5190	.7040	.2980	.0410	.0000	-.0530	-.0460	.3770	.1250	-.2060	-.1280	-.0510	-.0760	-.0730
120.000			.8120	.2020	.1040	.0580	-.0070	.0010	.0670	.5780	.0490	.1060	.2280	.1640	.1000
135.000								.0160		.1340		.1240		.2020	
150.000			.8730	.4420	.1360	.0860	.0140	.0210	.0730	.2710	.3780	.1560	.1400	.1620	.0880
165.000				.4300	.1280	.0820	.0130	.0170	.0600	.3240	.3880		.0840		.0870
180.000	1.6260	1.6100	.8460	.4060	.1130	.0660	-.0030	.0060	.0390	.3140	.2620	.2530	.0500	.0780	.0620
270.000		1.3440													

X/LT .7449 .8526 .9290

PHI

.000	.0000	.0060	-.0020
30.000	-.0620	-.0410	-.0200
60.000	-.0230	-.0410	-.0310
90.000			.0320
120.000	.0180	.0680	.1220
135.000	.0370	.1810	.0430
150.000	.0720	.2400	.0320
165.000		.3660	.0140
180.000	.0030		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT17)

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6290	1.2790	.4330	.1140	-.1050	-.1430	-.1580	-.1470	-.1140	-.0100	.0780	.0190	-.0690	-.1270	-.0660
30.000			.4530	.1010	-.0960	-.1400	-.1570	-.1460	-.1190	-.0050	-.0720	-.1200	-.1230	-.0600	-.0540
60.000			.5160	.1430	-.0760	-.0960	-.1370	-.1290	-.0590	.0120	-.2810	-.2760	-.2740	-.1060	-.0110
90.000	1.4380		.6160	.2210	-.0300	.0000	-.1000	-.0950	.3460	.1190	-.2020	-.0450	-.0780	-.1160	.0480
120.000			.7230	.3140	.0390	.0030	-.0560	-.0490	-.0280	.5080	.1850	.0720	.1770	.1280	.0810
135.000								-.0270		.1780		.0880		.1580	
150.000			.8260	.3910	.0960	.0530	-.0140	-.0050	.0040	.3310	.3450	.1080	.0910	.1510	.0660
165.000				.4110	.1090	.0710	.0020	.0060	.0150	.3420	.3150		.1020		.0670
180.000	1.6290	1.6170	.8570	.4140	.1160	.0770	.0050	.0080	.0210	.3510	.2420	.2810	.1180	.0890	.0770
270.000		1.4270													

X/LT .7449 .8526 .9290

PHI

.000	-.0020	.0200	.0100
30.000	-.0310	-.0060	-.0060
60.000	-.0100	-.0130	-.0060
90.000			.0200
120.000	-.0010	.0210	.0400
135.000		.0150	.0830
150.000	.0340	.1400	-.0560
165.000		.1830	-.1070
180.000	.0080		

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6280	1.2750	.4210	.0990	-.1050	-.1410	-.1650	-.1570	-.1220	-.0310	.0820	.0100	-.0770	-.1240	-.0580
30.000			.4060	.0780	-.1070	-.1460	-.1670	-.1570	-.1210	.0190	-.0320	-.0380	-.0960	-.0920	-.0760
60.000			.4270	.0920	-.0990	-.1240	-.1620	-.1570	-.0590	.0260	-.2610	-.2380	-.2270	-.0860	.0180
90.000	1.3500		.4920	.1380	-.0730	.0000	-.1440	-.1370	.2690	.1300	-.1830	-.0050	-.1040	-.1070	-.0460
120.000			.5960	.2190	-.0200	-.0530	-.1060	-.0980	.0200	.1340	.2820	.0700	.1360	.0910	.0370
135.000								-.0710		.2130		.0150		.1050	
150.000			.7370	.3250	.0490	.0050	-.0510	-.0440	-.0070	.2860	.2660	.1060	.0790	.0900	.0230
165.000				.3720	.0800	.0370	-.0230	-.0180	.0040	.2710	.2340		.0690		.0340
180.000	1.6280	1.6150	.8470	.4080	.1080	.0580	-.0070	.0030	.0280	.2870	.2620	.2570	.0580	.0770	.0770
270.000		1.5160													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RDOT17)

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0040	-.0040	-.0140
30.000	-.0200	-.0010	-.0050
60.000	-.0190	-.0210	-.0120
90.000			-.0280
120.000	-.0350	-.0060	-.0130
135.000	-.0190	-.0030	-.0740
150.000	-.0160	-.0445	-.1540
165.000		-.0260	-.1980
180.000	.0000		

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (2) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6050	1.2540	.4080	.0990	-.1000	-.1390	-.1650	-.1580	-.1300	-.0560	.0730	-.0060	-.0870	-.1160	-.0520
30.000			.3820	.0680	-.1080	-.1460	-.1670	-.1550	-.1180	.0200	-.0590	-.0200	-.0880	-.1080	-.0720
60.000			.3910	.0750	-.1060	-.1280	-.1650	-.1550	-.0310	.0400	-.2440	-.2030	-.2030	-.0860	-.0070
90.000		1.2920	.4430	.1120	-.0880	.0000	-.1550	-.1450	.1970	.1350	-.1720	.0070	-.1140	-.0890	-.0510
120.000			.5430	.1830	-.0360	-.0700	-.1180	-.1130	.0420	.0360	.3000	.1420	.1080	.0850	.0110
135.000								-.0880		.1910		-.0010		.0720	
150.000			.6890	.2930	.0380	-.0060	-.0640	-.0570	-.0490	.3130	.2380	.1330	.0480	.0580	.0110
165.000				.3500	.0760	.0310	-.0310	-.0260	-.0100	.2980	.2030		.0200		.0190
180.000	1.6050	1.5940	.8300	.4010	.1080	.0640	-.0000	.0030	.0220	.2920	.2590	.2020	.0290	.0290	.0570
270.000		1.5390													

X/LT .7449 .8526 .9290

PHI

.000	-.0300	-.0160	-.0230
30.000	-.0140	-.0060	-.0130
60.000	-.0330	-.0280	-.0170
90.000			-.0380
120.000	-.0450	-.0150	-.0430
135.000	-.0310	-.0280	-.1020
150.000	-.0430	-.1190	-.1760
165.000		-.1410	-.2010
180.000	.0070		

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBT018) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.340

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4760	1.2570	.5080	.1240	-.1380	-.1930	-.2370	-.2210	-.1920	.0790	.0740	-.0950	-.1730	-.1320	-.0480
30.000			.6140	.2030	-.0800	-.1400	-.1930	-.1750	-.1420	-.0050	-.2320	-.2520	-.0820	-.0680	-.0790
60.000			.7470	.3060	-.0030	-.0560	-.1280	-.1140	.2100	.0350	-.3820	-.2230	-.0850	-.0630	-.0050
90.000		1.5080	.8470	.3910	.0600	.0000	-.0800	-.0580	.6380	-.0960	-.4540	-.1340	-.1620	-.1990	-.1870
120.000			.8730	.4190	.0820	.0240	-.0590	-.0500	.2990	.2820	-.1460	.0050	.2220	.2160	.0460
135.000							-.0610		.2820		.0600			.1860	
150.000			.8120	.3760	.0460	-.0110	-.0870	-.0770	-.0450	.3130	.2760	.0780	.0190	.0980	.0440
165.000				.3260	.0090	-.0410	-.1130	-.1030	-.0760	.4290	.2680		-.0730		-.0260
180.000	1.4760	1.4060	.6990	.2730	-.0280	-.0750	-.1470	-.1330	-.1070	.3540	.1100	-.0430	-.1640	-.1270	.0080
270.000		1.1460													

X/LT .7449 .8526 .9290

PHI

.000	.0420	.0250	.0020
30.000	-.0380	-.0080	.0180
60.000	-.0060	.0050	.0490
90.000			-.1430
120.000	.0720	.2620	.1590
135.000	.0570	.3100	.1530
150.000	.0420	.2840	.1490
165.000		.4740	.1360
180.000	-.1520		

MACH (1) = 1.555

BETAT (2) = -8.500

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5050	1.2760	.5130	.1180	-.1350	-.1880	-.2360	-.2170	-.1770	.0980	.0810	-.0660	-.1620	-.1490	-.0230
30.000			.5960	.1830	-.0930	-.1510	-.2090	-.1900	-.1540	.0000	-.1980	-.2130	-.0860	-.0570	-.0720
60.000			.7080	.2680	-.0320	-.0890	-.1610	-.1450	.1550	.0280	-.3850	-.2370	-.0840	-.0410	-.0140
90.000		1.4930	.7990	.3450	.0250	.0000	-.1150	-.0940	.6190	-.1000	-.4530	-.1420	-.1810	-.2210	-.1600
120.000			.8310	.3780	.0530	-.0090	-.0900	-.0790	.2420	.2910	-.0760	-.0380	.1760	.1920	.0270
135.000							-.0850		.3070		.0120			.1610	
150.000			.8060	.3590	.0370	-.0270	-.1050	-.0910	-.0610	.3370	.2760	.0690	-.0020	.0750	.0400

(RBTIA)

BETAT (2) = -6.350

DEFENDENT VARIABLE CP

[illegible]

PHI			
.000	-.0130	.0350	.0210
30.000	-.0470	-.0340	.0180
60.000	-.0150	-.0200	.0210
90.000			-.0800
120.000	.0360	.1940	.1030
135.000	.0210	.2390	.0900
150.000	-.0100	.2230	.1000
165.000		.4160	.0870
180.000	-.1530		

BETAT (3) = -4.250

DEPENDENT VARIABLE CP

[illegible]

PHI			
.000	.0020	-.0020	-.0090
30.000	-.0270	-.0240	-.0090
60.000	-.0130	-.0100	.0150
90.000			-.0030
120.000	-.0120	.1430	.0640
135.000	-.0260	.1790	.0330
150.000	-.0330	.1920	-.0030

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBT18)

MACH (1) = 1.555

BETAT (3) = -4.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3030 .0000

180.000 -.1190

MACH (1) = 1.555

BETAT (4) = -.160

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5410 1.2990 .5350 .1340 -.1170 -.1720 -.2230 -.2020 -.1550 .0950 .1040 -.0380 -.1520 -.1910 -.0140

30.000 .5450 .1440 -.1130 -.1670 -.2190 -.1940 -.1500 -.0210 -.0430 -.1330 -.1680 -.0780 -.0380

60.000 .1840 .1730 -.0960 -.1450 -.2070 -.1870 .0790 .0740 -.3490 -.2160 -.0800 .0070 -.0320

90.000 .13860 .6310 .2120 -.0700 .0000 -.1870 -.1680 .4470 -.0630 -.4170 -.1970 -.2860 -.0510 -.2290

120.000 .6800 .2530 -.0360 -.0920 -.1570 -.1440 .1830 .3960 .0180 -.0070 .0660 .0860 -.0490

135.000 .7250 .2960 -.0100 -.0680 -.1390 -.1270 -.0870 .3490 .1630 .0630 .0450 .0100 -.0170

165.000 .2990 -.0050 -.0590 -.1330 -.1210 -.0790 .3340 .1700 -.0020 -.0090

180.000 1.5410 1.4760 .7430 .2980 -.0020 -.0590 -.1330 -.1200 -.0630 .3080 .1130 .1490 -.0070 -.0030 .0020

270.000 1.3790

X/LT .7449 .8526 .9290

PHI

.000 .0250 .0120 -.0010

30.000 .0080 -.0010 .0090

60.000 -.0360 -.0130 .0230

90.000 .0110

120.000 -.0610 .0650 -.0120

135.000 -.0850 .0950 -.0570

150.000 -.0810 .1110 -.1180

165.000 .1190 -.1750

180.000 -.0480

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT18)

MACH (1) = 1.555

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5310	1.3000	.5350	.1350	-.1270	-.1820	-.2280	-.2070	-.1580	.1050	.0950	-.0540	-.1610	-.1750	.0030
30.000			.5100	.1080	-.1370	-.1890	-.2330	-.2100	-.0860	-.0180	.0000	-.0690	-.1770	-.1080	-.0320
60.000			.5050	.1090	-.1370	-.1780	-.2350	-.2110	.0180	.1080	-.3190	-.1760	-.0370	-.0190	-.0440
90.000		1.2880	.5330	.1320	-.1250	.0000	-.2270	-.2080	.3820	-.0620	-.4040	-.1940	-.2630	.0310	-.1580
120.000			.5790	.1750	-.0940	-.1390	-.2000	-.1870	.1510	.3920	.0770	.0550	.0090	.0190	-.0690
135.000								-.1720		.1890		.0120		-.0050	
150.000			.6610	.2390	-.0470	-.0970	-.1640	-.1550	.1380	.2810	.1430	.0190	-.0430	-.0170	-.0490
165.000				.2640	-.0280	-.0760	-.1470	-.1360	-.0980	.3090	.0650		-.0620		-.0460
180.000	1.5310	1.4620	.7370	.2860	-.0080	-.0590	-.1350	-.1200	-.0900	.4550	.0700	.0420	-.0380	-.0350	-.0070
270.000		1.4670													

X/LT .7449 .8526 .9290

PHI															
.000	.0100	.0020	-.0130												
30.000	.0090	.0030	-.0050												
60.000	.0030	-.0190	.0370												
90.000			-.0180												
120.000	-.1110	-.0030	-.0920												
135.000	-.1180	-.0650	-.1420												
150.000	-.1420	-.1380	-.1730												
165.000		-.1680	-.1780												
180.000	-.1100														

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5140	1.2770	.5310	.1390	-.1260	-.1790	-.2290	-.2160	-.1740	.0980	.0900	-.0670	-.1600	-.1530	-.0220
30.000			.4820	.0950	-.1570	-.2020	-.2440	-.2220	-.0780	.0050	-.0490	-.0640	-.1760	-.1310	-.0500
60.000			.4680	.0750	-.1570	-.1960	-.2460	-.2220	.0150	.1310	-.2920	-.1100	-.0250	-.0330	-.0570
90.000		1.2240	.4940	.0890	-.1460	.0000	-.2420	-.2270	.3720	-.0610	-.3720	-.1960	-.2160	.0020	-.1460
120.000			.5360	.1340	-.1200	-.1620	-.2200	-.2090	.1190	.4320	.0960	.0570	-.0210	-.0120	-.0910
135.000								-.1920		.1400		-.0040		-.0340	
150.000			.6280	.2090	-.0760	-.1240	-.1860	-.1680	-.0860	.4030	.1000	-.0230	-.0480	-.0260	-.0720
165.000				.2480	-.0440	-.0980	-.1600	-.1480	-.0800	.4360	.0230		-.0940		-.0630
180.000	1.5140	1.4510	.7310	.2870	-.0160	-.0720	-.1350	-.1240	-.0700	.5400	.0790	-.0090	-.0880	-.0690	.0030
270.000		1.4920													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT18)

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0010	.0320	.0180
30.000	-.0060	.0380	.0310
60.000	.0510	.0300	.0400
90.000			.0000
120.000	-.1390	.0380	-.0320
135.000	-.1440	-.0470	-.1260
150.000	-.1830	-.1990	-.2100
165.000		-.1390	-.1950
180.000	-.1590		

MACH (1) = 1.555

BETAT (7) = 8.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4990	1.2570	.5170	.1260	-.1330	-.1860	-.2330	-.2190	-.1910	.0870	.0750	-.0920	-.1640	-.1380	-.0520
30.000			.4410	.0650	-.1740	-.2170	-.2570	-.2360	-.0770	.0340	-.0850	-.1010	-.1970	-.1650	-.0220
60.000			.4220	.0460	-.1790	-.2110	-.2570	-.2360	.0040	.1540	-.2610	-.0720	-.0590	-.0260	.0100
90.000		1.1740	.4340	.0510	-.1720	.0000	-.2590	-.2360	.3350	-.0560	-.2840	-.2120	-.1360	-.0090	-.0390
120.000			.4760	.0990	-.1500	-.1890	-.2430	-.2310	.1140	.3560	.0930	.0200	-.0460	-.0320	-.0740
135.000								-.1980		.2070		.0030		-.0510	
150.000			.5830	.1790	-.0990	-.1480	-.2070	-.1820	-.0170	.3320	.0530	-.0690	-.0740	-.0530	-.1040
165.000				.2250	-.0630	-.1130	-.1750	-.1560	-.0900	.4220	-.0310		-.1640		-.0950
180.000	1.4990	1.4380	.7130	.2780	-.0260	-.0770	-.1410	-.1210	-.0920	.6330	.0800	-.0630	-.1750	-.1030	.0150
270.000		1.5130													

X/LT .7449 .8526 .9290

PHI

.000	.0410	.0270	.0070
30.000	.0250	.0070	-.0100
60.000	.0580	.0050	-.0030
90.000			-.0330
120.000	-.1090	-.0090	-.1000
135.000	-.1040	-.1330	-.2090
150.000	-.1500	-.2010	-.1940
165.000		-.2290	-.2150
180.000	-.1680		

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(R80T18)

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6300	1.3700	.5020	.1570	-.0710	-.1130	-.1470	-.1400	-.1210	-.0970	.0910	.0210	-.0700	-.1020	-.0430
30.000			.6120	.2250	-.0170	-.0690	-.1090	-.1000	-.0860	.0050	-.1030	-.1770	-.1430	-.0420	-.0380
60.000			.7460	.3250	.0480	.0050	-.0570	-.0500	-.0260	.1850	-.2110	-.2110	-.0520	-.0120	-.0610
90.000		1.6140	.8470	.4080	.1060	.0000	-.0130	-.0030	.3810	.1580	-.2440	-.2380	-.0380	-.0420	-.0560
120.000			.8720	.4300	.1280	.0750	.0050	.0110	.0610	.4460	-.0560	.0310	.1020	.2300	.1400
135.000							.0030			.3750		.1410		.1700	
150.000			.8250	.3920	.0990	.0510	-.0150	-.0120	.0210	.1160	.4920	.2040	.1280	.0880	.0800
165.000				.3490	.0690	.0270	-.0360	-.0320	-.0160	.1940	.4090		.0750		.0070
180.000	1.6300	1.5200	.7110	.2980	.0370	-.0020	-.0610	-.0580	-.0460	.2200	.2730	.1400	-.0080	-.0430	-.0780
270.000		1.2680													

X/LT .7449 .8526 .9290

PHI

.000	-.0600	-.0290	-.0170
30.000	-.0640	-.0810	-.0530
60.000	.0120	.0080	.0440
90.000			.0120
120.000	.0850	.1990	.2550
135.000	.0860	.2820	.1340
150.000	.0840	.2630	.1350
165.000		.5460	.1230
180.000	-.0470		

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6400	1.3720	.5040	.1590	-.0680	-.1090	-.1400	-.1350	-.1110	-.0850	.1030	.0290	-.0590	-.0940	-.0390
30.000			.5870	.2040	-.0300	-.0790	-.1140	-.1020	-.0840	.0210	-.0790	-.1620	-.1270	-.0460	-.0340
60.000			.6970	.2780	.0230	-.0150	-.0710	-.0660	-.0300	.1810	-.2140	-.2200	-.0790	-.0270	-.0380
90.000		1.5780	.7880	.3490	.0740	.0000	-.0310	-.0230	.3650	.1520	-.2430	-.2400	-.0960	-.0650	-.0770
120.000			.8230	.3860	.0940	.0540	-.0100	-.0060	.0460	.4530	-.0500	.0240	.0620	.1880	.1120
135.000								-.0080	.1790		.1010			.1350	
150.000			.7960	.3760	.0850	.0360	-.0270	-.0150	-.0010	.1920	.4430	.1620	.1240	.0590	.0590
165.000				.3420	.0640	.0200	-.0400	-.0340	-.0160	.2710	.4050		.0760		.0290
180.000	1.6400	1.5290	.7170	.3100	.0360	-.0010	-.0600	-.0530	-.0360	.2430	.2880	.1860	.0160	-.0050	-.0440
270.000		1.3170													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(R80T18)

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0390	-.0040	.0010
30.000	-.0480	-.0570	-.0320
60.000	.0030	.0170	.0380
90.000			.0610
120.000	.0560	.1380	.2260
135.000	.0570	.2340	.1050
150.000	.0690	.2500	.1020
165.000		.4990	.0870
180.000	-.0280		

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6520	1.3790	.5150	.1680	-.0610	-.1030	-.1370	-.1280	-.1030	-.0730	.1180	.0280	-.0450	-.0930	-.0490
30.000			.5720	.1960	-.0300	-.0790	-.1160	-.1060	-.0850	.0290	-.0550	-.1390	-.1110	-.0500	-.0290
60.000			.6540	.2570	.0000	-.0310	-.0870	-.0720	-.0280	.1710	-.2160	-.2270	-.0870	-.0430	-.0160
90.000		1.5420	.7290	.3170	.0490	.0000	-.0500	-.0390	.3420	.1470	-.2450	-.2470	-.0950	-.0900	-.0910
120.000			.7710	.3540	.0740	.0290	-.0300	-.0210	.0000	.4730	-.0500	.0250	.0330	.1480	.0890
135.000								-.0230		.1050		.0870		.1210	
150.000			.7760	.3560	.0770	.0320	-.0340	-.0260	-.0030	.2800	.3360	.1380	.0970	.0610	.0560
165.000				.3340	.0620	.0200	-.0400	-.0350	-.0170	.3060	.3840		.0540		.0070
180.000	1.6520	1.5440	.7330	.3120	.0460	.0050	-.0540	-.0450	-.0320	.2680	.2640	.2380	.0430	.0340	-.0510
270.000		1.3710													

X/LT .7449 .8526 .9290

PHI

.000	-.0160	.0120	.0110
30.000	-.0350	-.0210	-.0180
60.000	-.0030	.0140	.0270
90.000			.0900
120.000	.0290	.0890	.1750
135.000	.0290	.2000	.0740
150.000	.0280	.2580	.0560
165.000		.3790	.0440
180.000	.0040		

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RBO18)

MACH (2) = 2.000

BETAT (4) = -.160

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6590	1.3770	.5250	.1790	-.0530	-.0960	-.1290	-.1200	-.0970	-.0510	.1140	.0360	-.0290	-.0810	-.0710
30.000			.5440	.1740	-.0480	-.0940	-.1270	-.1170	-.0910	.0380	-.0340	-.0490	-.0800	-.0790	-.0400
60.000			.5830	.2030	-.0360	-.0690	-.1160	-.1050	-.0070	.1630	-.2020	-.2230	-.0810	-.0680	.0300
90.000		1.4610	.6420	.2420	-.0080	.0000	-.0930	-.0860	.2680	.1460	-.2400	-.2110	-.0980	-.1250	-.0360
120.000			.6900	.2830	.0210	-.0180	-.0700	-.0630	-.0530	.4260	.0020	.0230	.1030	.1110	.0560
135.000								-.0570		.1230		.0620		.1150	
150.000			.7300	.3210	.0460	.0050	-.0530	-.0500	-.0330	.2920	.3340	.0840	.0760	.0440	.0070
165.000			.3260	.0500	.0140	-.0470	-.0430	-.0330	.2760	.3350		.0910			-.0150
180.000	1.6590	1.5550	.7420	.3260	.0540	.0130	-.0460	-.0390	-.0300	.2780	.2390	.0880	.1560	.0460	-.0270
270.000		1.4510													

X/LT .7449 .8526 .9290

PHI

.000	.0060	.0230	.0200
30.000	-.0160	.0000	.0030
60.000	-.0080	-.0290	.0050
90.000		.0450	
120.000	-.0160	.0090	.0660
135.000	-.0160	.0910	-.0180
150.000	.0170	.1360	-.0550
165.000		.1740	-.1070
180.000	.0510		

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6530	1.3760	.5170	.1760	-.0570	-.1000	-.1290	-.1200	-.0980	-.0510	.1200	.0420	-.0400	-.0870	-.0520
30.000			.4880	.1400	-.0690	-.1130	-.1370	-.1280	-.0970	.0490	-.0700	.0090	-.0450	-.0980	-.0730
60.000			.4980	.1400	-.0700	-.0930	-.1330	-.1260	.0160	.1840	-.1790	-.2030	-.0640	-.0730	-.0010
90.000		1.3790	.5300	.1630	-.0570	.0000	-.1250	-.1160	.2380	.1680	-.2230	-.1300	-.1060	-.1210	-.0250
120.000			.5790	.2060	-.0300	-.0540	-.1040	-.0960	-.0760	.2650	.1200	.0140	.1130	.0550	.0030
135.000								-.0870		.0630		.0290		.0550	
150.000			.6640	.2670	.0170	-.0220	-.0790	-.0700	-.0570	.2430	.2740	.1360	.0430	-.0030	-.0210
165.000			.2930	.0320	.0000	-.0610	-.0560	-.0430	.2360	.2460		.1000			-.0450
180.000	1.6530	1.5470	.7410	.3190	.0480	.0130	-.0490	-.0410	-.0300	.2650	.2520	.2430	.0800	.0390	-.0430
270.000		1.5390													

X/LT .7449 .8526 .9290

PHI

(RBO18)

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

0626* 9258* 6747* 17/1

0200' 0200' 0210' - 000'

[illegible]

0420	0520	0520	0520
0520	0520	0520	0520

0501 - 0890 - 0810 - 0801

0700* 050*08

2,000 = (2) EACH

BETAT (S) = 5.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

17/X

FBI

000' 1'5560 1'5600

000' 09

20.000

000'09

80,000 1,656 1,555

1348

06761 07621 08511 17

711

0110* 0610* 0870* 000*

0100°- 0810°- 0120°- 000°/06

29.000 - .0660 - .0340 - .0510

50.000 - .0460 - .1450 - .1620

000000 - 000000

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT18)

MACH (2) = 2.000

BETAT (7) = 8.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0432	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6380	1.3590	.5070	.1680	-.0610	-.1050	-.1370	-.1320	-.1180	-.0990	.0910	-.0010	-.0810	-.1040	-.0530
30.000			.4400	.1040	-.0950	-.1370	-.1590	-.1510	-.1220	.0660	-.1050	-.0660	-.0990	-.1310	-.0880
60.000			.4190	.0840	-.1040	-.1260	-.1630	-.1550	.0140	.1550	-.1440	-.1700	-.0340	-.0630	-.0450
90.000		1.2910	.4380	.0940	-.1010	.0000	-.1630	-.1500	.1730	.1880	-.2110	-.0880	-.1250	-.1430	-.0220
120.000			.4850	.1380	-.0780	-.1040	-.1460	-.1370	.0230	.0240	.2020	-.0930	.0450	.0170	-.0550
135.000								-.1200		.1230		.0300		.0050	
150.000			.5900	.2180	-.0250	-.0600	-.1070	-.0990	-.0520	.1930	.1840	.1110	-.0410	-.0400	-.0510
165.000				.2640	.0080	-.0290	-.0810	-.0720	-.0270	.1530	.1690		-.0650		-.1250
180.000	1.6380	1.5370	.7190	.3150	.0440	.0010	-.0560	-.0440	-.0190	.1910	.2680	.1330	-.0140	-.0390	-.0680
270.000		1.6030													

X/LT	.7449	.8526	.9290
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PHI

.000	-.0760	-.0520	-.0330
30.000	-.0210	-.0170	-.0130
60.000	-.0450	-.0160	.0100
90.000			-.0210
120.000	-.0740	-.0530	-.0820
135.000	-.0740	-.0970	-.1090
150.000	-.0730	-.2100	-.1820
165.000		-.1370	-.1910
180.000	-.0460		

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RDOT19) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.320

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4920	1.3570	.6060	.2050	-.0820	-.1370	-.1930	-.1770	-.1540	.0470	.0910	-.0570	-.1220	-.1080	-.0200
30.000			.7200	.2940	-.0110	-.0790	-.1470	-.1240	-.0960	.0510	-.1340	-.1940	-.0880	-.0150	-.0330
60.000			.8180	.3720	.0470	-.0160	-.1000	-.0790	.2200	.1810	-.2830	-.2290	-.0080	.0170	.0100
90.000	1.5210		.8580	.4000	.0720	.0000	-.0770	-.0620	.6150	-.0640	-.4650	-.0190	.0230	-.1140	-.1840
120.000			.8150	.3730	.0430	-.0200	-.0950	-.0850	.2470	.1790	-.2950	-.0710	.1920	.1640	.0460
135.000								-.1090		.1520		.0170		.1800	
150.000			.7170	.2910	-.0180	-.0720	-.1430	-.1330	-.1010	.1090	.2350	.0280	-.0160	.0950	.0630
165.000				.2370	-.0570	-.1060	-.1670	-.1580	-.1330	.3240	.2510		-.0990		-.0320
180.000	1.4920	1.3410	.6000	.1880	-.0890	-.1320	-.1960	-.1850	-.1500	.2440	.1090	-.0550	-.1750	-.1310	-.1450
270.000		1.1620													

X/LT .7449 .8526 .9290

PHI

.000	.0210	.0290	.0110
30.000	-.0310	.0070	.0440
60.000	.0040	-.0030	.0270
90.000			-.1120
120.000	.0740	.3740	.2580
135.000	.0520	.3690	.2590
150.000	.0190	.3350	.2620
165.000		.5050	.1990
180.000	-.1220		

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5170	1.3770	.6140	.2040	-.0840	-.1410	-.1900	-.1760	-.1590	.0950	.1060	-.0330	-.1110	-.1260	.0030
30.000			.7010	.2680	-.0370	-.1010	-.1590	-.1370	-.1080	.0380	-.1020	-.1420	-.0960	-.0090	-.0280
60.000			.7760	.3250	.0090	-.0490	-.1250	-.1080	.1610	.1820	-.2850	-.2390	-.0080	.0240	.0070
90.000	1.5040		.8080	.3470	.0300	.0000	-.1080	-.0950	.5850	-.0670	-.4650	-.0430	-.0110	-.1270	-.1670
120.000			.7730	.3260	.0130	-.0460	-.1200	-.1110	.0910	.1720	-.2880	-.0850	.1610	.1480	.0100
135.000								-.1280		.1840		-.0400		.1570	
150.000			.7050	.2740	-.0330	-.0830	-.1540	-.1450	-.1110	.1870	.2360	.0200	-.0460	.0670	.0360

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(R0T19)

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.2340	-.0600	-.1070	-.1740	-.1640	-.1310	.3080	.2440		-.0880		-.0340
180.000	1.5170	1.3630	.6150	.1940	-.0820	-.1280	-.1950	-.1830	-.1450	.2000	.1190	-.0100	-.1150	-.1320	-.1080
270.000		1.2230													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0350	.0160	.0370
30.000	-.0180	-.0240	.0180
60.000	-.0070	-.0100	.0010
90.000			-.1080
120.000	.0160	.2910	.2100
135.000	.0090	.3070	.2210
150.000	.0320	.2810	.2220
165.000		.4400	.1620
180.000	-.1260		

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5440	1.3940	.6240	.2030	-.0820	-.1420	-.1950	-.1740	-.1330	.1320	.1310	-.0110	-.1080	-.1420	.0240
30.000			.6810	.2520	-.0530	-.1120	-.1780	-.1480	-.1140	.0330	-.0610	-.1170	-.1090	-.0090	-.0350
60.000			.7290	.2840	-.0200	-.0820	-.1430	-.1260	.1550	.1900	-.2810	-.2560	.0020	.0180	-.0030
90.000		1.4850	.7500	.2970	-.0110	.0000	-.1300	-.1190	.5360	-.0610	-.4630	-.0600	-.0520	-.1390	-.1640
120.000			.7310	.2860	-.0190	-.0800	-.1370	-.1270	.1040	.1910	-.2250	-.1280	.1340	.1350	-.0040
135.000								-.1360		.2180		-.0820		.1260	
150.000			.6880	.2600	-.0470	-.0970	-.1670	-.1510	-.1130	.2460	.2380	.0220	-.0560	.0590	-.0130
165.000				.2300	-.0630	-.1090	-.1750	-.1670	-.1280	.2930	.2240		-.0510		-.0520
180.000	1.5440	1.3910	.6300	.2030	-.0780	-.1260	-.1910	-.1770	-.0970	.1820	.1150	.0460	-.0680	-.1250	.0210
270.000		1.2900													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0150	-.0030	-.0030
30.000	-.0140	-.0060	.0140
60.000	-.0160	-.0020	.0050
90.000			-.0810
120.000	-.0270	.2210	.1580
135.000	.0060	.2530	.1370
150.000	-.0030	.2470	.1590

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBT19)

MACH (1) = 1.555 BETAT (3) = -4.240

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3440 .0940

180.000 -.0730

MACH (1) = 1.555 BETAT (4) = -.140

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5530 1.5390 .6340 .2170 -.0700 -.1290 -.1840 -.1640 -.1230 .1050 .1420 .0040 -.1040 -.1510 -.0150

30.000 .6350 .2140 -.0750 -.1310 -.1870 -.1600 -.1230 .0560 .0450 -.0650 -.1230 -.0490 -.0270

60.000 .6410 .2100 -.0710 -.1200 -.1860 -.1620 .1260 .2240 -.2520 -.2470 -.0100 .0100 -.0230

90.000 .6400 .2130 -.0690 .0000 -.1820 -.1690 .4860 -.0420 -.4510 -.0400 -.1210 -.0320 -.1450

120.000 1.3950 .6390 .2100 -.0680 -.1150 -.1810 -.1670 .1110 .2450 -.1060 -.1700 .0790 .0770 -.0710

135.000 .6400 .2160 -.0710 -.1200 -.1800 -.1640 -.1210 .2340 .2670 .0350 -.0520 .0220

150.000 .6400 .2100 -.0750 -.1200 -.1800 -.1640 -.1210 .2670 .2310 .0350 -.0520 -.0400 -.0170

165.000 .6420 .2070 -.0730 -.1180 -.1780 -.1640 -.1080 .2490 .1820 -.0490 .0030

180.000 1.5530 1.4060 .6420 .2070 -.0730 -.1180 -.1810 -.1650 .0900 .1900 .1380 .1490 -.0480 -.1300 .0120

270.000 1.3990

X/LT .7449 .8526 .9290

PHI

.000 .0100 .0190 .0090

30.000 .0000 .0110 .0160

60.000 .0070 -.0010 .0240

90.000 -.0150

120.000 -.0410 .1270 .0580

135.000 -.0570 .1500 .0400

150.000 -.0380 .1580 -.0030

165.000 .1260 -.0510

180.000 -.0120

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBO119)

MACH (1) = 1.555

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5420	1.3850	.6400	.2180	-.0690	-.1270	-.1810	-.1660	-.1280	.0930	.1280	-.0100	-.1080	-.1470	.0170
30.000			.5850	.1750	-.0950	-.1510	-.2030	-.1820	-.1490	.0630	-.0320	-.0270	-.1270	-.1000	-.0370
60.000			.5520	.1480	-.1100	-.1580	-.2170	-.1980	.0830	.2590	-.2140	-.2090	.0180	-.0060	-.0330
90.000		1.2950	.5410	.1350	-.1180	.0000	-.2220	-.2050	.3920	-.0520	-.4430	-.0140	-.0300	-.0550	-.0890
120.000			.5400	.1450	-.1110	-.1560	-.2130	-.1990	.1190	.2780	-.0540	-.1440	.0120	.0010	-.0910
135.000								-.1940		.0410		-.0580		-.0230	
150.000			.5770	.1720	-.0940	-.1410	-.2010	-.1860	.1130	.2210	.1340	-.0260	-.1310	-.0590	-.0130
165.000				.1840	-.0850	-.1310	-.1910	-.1790	.0850	.1980	.1280		-.1100		-.0060
180.000	1.5420	1.3920	.6300	.2000	-.0730	-.1180	-.1830	-.1700	-.1210	.2310	.1070	.0460	-.0670	-.1370	.0160
270.000		1.4740													

X/LT .7449 .8526 .9290

PHI

.000	-.0010	.0030	.0040
30.000	-.0130	.0060	.0020
60.000	.0190	-.0090	.0350
90.000			.0080
120.000	-.0380	.0600	.0000
135.000	-.0770	-.0060	-.0570
150.000	-.1050	-.0840	-.0660
165.000		-.1160	-.1240
180.000	-.0580		

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5250	1.3680	.6320	.2220	-.0730	-.1320	-.1880	-.1710	-.1440	.0430	.1040	-.0310	-.1040	-.1170	.0020
30.000			.5550	.1510	-.1190	-.1770	-.2220	-.1960	-.1510	.1310	-.0510	-.1000	-.1630	-.1030	-.0470
60.000			.5130	.1080	-.1390	-.1770	-.2340	-.2150	.0660	.2840	-.1900	-.1590	.0200	-.0310	-.0430
90.000		1.2390	.5010	.0930	-.1450	.0000	-.2390	-.2200	.3600	-.0460	-.4310	.0020	-.0460	-.0430	-.1030
120.000			.5000	.1050	-.1380	-.1750	-.2290	-.2120	.0970	.3280	.0000	-.1140	-.0260	-.0330	-.0790
135.000								-.2060		.0890		-.0950		-.0500	
150.000			.5510	.1480	-.1190	-.1590	-.2120	-.1950	.1090	.2940	.1380	-.0530	-.1420	-.0800	-.0400
165.000				.1730	-.1020	-.1450	-.2030	-.1870	-.0980	.3290	.0470		-.1430		-.0200
180.000	1.5250	1.3760	.6210	.2070	-.0810	-.1270	-.1880	-.1730	-.1060	.4160	.1010	-.0190	-.1120	-.1350	-.0570
270.000		1.5030													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBOT19)

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0240	.0180	.0420
30.000	-.0100	.0540	.0460
60.000	.0370	.0490	.0470
90.000			.0220
120.000	-.0950	.0380	-.0010
135.000	-.1030	-.0010	-.0590
150.000	-.1390	-.0530	-.1360
165.000		.0010	-.1600
180.000	-.1290		

MACH (1) = 1.555

BETAT (7) = 6.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5080	1.3510	.6160	.2020	-.0800	-.1400	-.1910	-.1770	-.1500	.0070	.0790	-.0530	-.1010	-.1010	-.0270
30.000			.5100	.1240	-.1410	-.1920	-.2310	-.2160	-.1720	.1040	.0020	-.0680	-.1480	-.1140	.0060
60.000			.4510	.0740	-.1620	-.1970	-.2500	-.2280	.0560	.3020	-.1560	-.0620	.0050	-.0670	.0490
90.000		1.1840	.4370	.0600	-.1690	.0000	-.2530	-.2310	.3460	-.0420	-.4190	.0140	-.0550	-.0810	.0120
120.000			.4450	.0730	-.1640	-.1960	-.2420	-.2300	.0740	.3580	.0310	.0060	-.0760	-.0620	-.0170
135.000								-.2300		.0820		-.0900		-.0740	
150.000			.5040	.1250	-.1400	-.1710	-.2290	-.2020	.0050	.2960	.0990	-.0800	-.1670	-.1020	-.0470
165.000				.1530	-.1090	-.1490	-.2150	-.2000	-.0690	.3030	.0110		-.1960		-.0790
180.000	1.5080	1.3580	.6020	.1910	-.0820	-.1230	-.1900	-.1790	-.1150	.4460	.0990	-.0660	-.1800	-.1340	-.1130
270.000		1.5230													

X/LT .7449 .8526 .9290

PHI

.000	.0180	.0330	.0220
30.000	.0430	.0240	.0090
60.000	.0670	.0110	-.0020
90.000			-.0280
120.000	-.0520	.0020	-.0650
135.000	-.0720	-.0590	-.1220
150.000	-.0790	-.1760	-.1630
165.000		-.1330	-.1710
180.000	-.1410		

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBO19)

MACH (2) = 2.000

BETAT (1) = -8.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6330	1.4510	.6070	.2340	-.0170	-.0670	-.1050	-.1000	-.0910	-.0710	.0930	.0160	-.0360	-.0610	-.0130
30.000			.7150	.3090	.0450	-.0170	-.0640	-.0540	-.0440	.0780	-.0020	-.0980	-.0980	-.0350	.0020
60.000			.8100	.3840	.0950	.0470	-.0220	-.0140	.0930	.3250	-.1290	-.1320	-.0710	.0440	.0300
90.000		1.6160	.8490	.4140	.1130	.0000	-.0040	.0010	.3780	.1970	-.2490	-.2010	.1120	.0710	-.0700
120.000			.8060	.3860	.0910	.0440	-.0160	-.0140	.0240	.3290	-.1290	-.0460	.0280	.2310	.1360
135.000								-.0330	.2840		.0500		.1660		
150.000			.7170	.3130	.0410	-.0020	-.0550	-.0540	-.0290	.0760	.3320	.1690	.0920	.0440	.0840
165.000				.2650	.0100	-.0290	-.0790	-.0760	-.0440	.0650	.3880		.0480		.0090
180.000	1.6330	1.4430	.5990	.2180	-.0180	-.0510	-.1010	-.0970	-.0560	.0960	.2940	.0960	-.0120	-.0500	-.0820
270.000		1.2750													

X/LT .7449 .8526 .9290

PHI

.000	-.0420	-.0470	-.0360
30.000	-.0200	-.0210	-.0150
60.000	.0230	.0190	.0310
90.000			.0450
120.000	.1100	.2460	.2910
135.000	.1090	.3160	.2150
150.000	.1080	.2860	.1930
165.000		.6080	.1970
180.000	-.0420		

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6440	1.4590	.6120	.2350	-.0210	-.0690	-.1060	-.1010	-.0730	-.0610	.1080	.0310	-.0230	-.0510	-.0120
30.000			.6940	.2850	.0230	-.0310	-.0720	-.0620	-.0410	.0920	.0240	-.0860	-.0890	-.0370	.0020
60.000			.7680	.3360	.0640	.0210	-.0390	-.0330	.0720	.3280	-.1290	-.1430	-.0910	.0250	.0240
90.000		1.5840	.7980	.3580	.0830	.0000	-.0260	-.0160	.3620	.1960	-.2500	-.2230	.0860	.0410	-.0950
120.000			.7660	.3380	.0670	.0250	-.0340	-.0290	.0130	.3390	-.1250	-.0720	.0330	.1840	.1120
135.000								-.0420		.3080		.0610		.1090	
150.000			.7000	.2900	.0230	-.0120	-.0660	-.0570	-.0250	.0670	.4140	.1440	.0880	.0190	.0520
165.000				.2570	.0040	-.0330	-.0850	-.0730	-.0450	.1180	.3910		.0540		.0150
180.000	1.6440	1.4500	.6140	.2220	-.0160	-.0500	-.1040	-.0940	-.0750	.1740	.2820	.1570	.0010	-.0310	-.0660
270.000		1.3240													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT19)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0240	-.0250	-.0140
30.000	-.0160	-.0130	-.0060
60.000	.0160	.0060	.0260
90.000			.0470
120.000	.0620	.1710	.2600
135.000	.0830	.2600	.1410
150.000	.0800	.2530	.1300
165.000		.4920	.1180
180.000	-.0620		

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6580	1.4660	.6200	.2420	-.0130	-.0620	-.0960	-.0890	-.0650	-.0520	.1550	.0570	-.0180	-.0420	-.0180
30.000			.6700	.2780	.0230	-.0330	-.0750	-.0600	-.0430	.1030	.0310	-.0710	-.0510	-.0490	.0100
60.000			.7150	.3160	.0520	.0120	-.0470	-.0350	.0370	.3270	-.1260	-.1500	-.1120	.0160	.0230
90.000		1.5440	.7360	.3330	.0660	.0000	-.0310	-.0290	.3430	.1940	-.2490	-.2330	.0500	.0130	-.1040
120.000			.7150	.3160	.0520	.0140	-.0430	-.0370	.0030	.3350	-.1240	-.0760	-.0150	.1510	.0940
135.000								-.0470		.2220		.0550		.0640	
150.000			.6770	.2860	.0250	-.0130	-.0680	-.0590	-.0350	.1240	.4050	.1080	.0710	.0240	.0480
165.000				.2610	.0090	-.0270	-.0800	-.0740	-.0500	.2210	.3850		.0650		-.0160
180.000	1.6580	1.4670	.6250	.2320	-.0570	-.0410	-.0940	-.0880	-.0660	.2050	.3010	.2220	.0480	-.0010	-.0910
270.000		1.3810													

X/LT .7449 .8526 .9290

PHI

.000	-.0090	-.0020	.0040
30.000	-.0120	-.0070	.0030
60.000	.0180	.0020	.0260
90.000			.0850
120.000	.0230	.1190	.2080
135.000	.0460	.2030	.0960
150.000	.0410	.2280	.0860
165.000		.4450	.0700
180.000	-.0760		

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RBO19)

MACH (2) = 2.000

BETAT (4) = -.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6690	1.4680	.6340	.2630	.0060	-.0480	-.0910	-.0830	-.0590	-.0470	.1620	.0750	.0030	-.0380	-.0450
30.000			.6380	.2550	.0060	-.0470	-.0920	-.0800	-.0590	.1010	-.0280	.0240	-.0260	-.0570	-.0130
60.000			.6470	.2540	.0050	-.0350	-.0890	-.0810	-.0390	.3360	-.1140	-.1540	-.0980	.0190	.0230
90.000		1.4800	.6520	.2570	.0090	.0000	-.0870	-.0830	.2890	.1920	-.2470	-.2230	.0140	-.0590	-.0820
120.000			.6530	.2550	.0070	-.0370	-.0910	-.0820	-.0500	.3450	-.0880	-.0410	-.0700	.1120	.0410
135.000								-.0790		.1110		.0300		.0390	
150.000			.6520	.2570	.0050	-.0350	-.0910	-.0800	-.0560	.2250	.3040	.0570	.0630	-.0090	-.0110
165.000				.2480	.0050	-.0350	-.0890	-.0810	-.0560	.2150	.3340		.0900		-.0560
180.000	1.6690	1.4860	.6490	.2470	.0040	-.0340	-.0910	-.0820	-.0560	.2190	.2550	.1230	.1300	.0160	-.0770
270.000		1.4630													

X/LT .7449 .8526 .9290

PHI

.000	.0070	.0120	.0100
30.000	-.0070	-.0030	.0080
60.000	-.0040	-.0130	.0240
90.000			.0600
120.000	-.0310	.0330	.0990
135.000	-.0190	.0960	.0020
150.000	-.0030	.1420	-.0430
165.000		.1710	-.1040
180.000	.0500		

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6790	1.4770	.6370	.2540	-.0060	-.0550	-.0930	-.0860	-.0670	-.0550	.1590	.0500	-.0160	-.0480	-.0280
30.000			.5910	.2030	-.0260	-.0790	-.1120	-.1030	-.0800	.0920	-.0850	.0220	-.0020	-.0590	-.0560
60.000			.5570	.1840	-.0480	-.0750	-.1220	-.1130	-.0020	.2400	-.0840	-.1380	-.0610	.0220	.0040
90.000		1.4050	.5510	.1680	-.0510	.0000	-.1250	-.1150	.2170	.1950	-.2390	-.1380	-.0010	-.0360	-.0710
120.000			.5600	.1830	-.0440	-.0750	-.1210	-.1110	.0010	.2330	-.0390	-.0300	-.0260	.0380	-.0180
135.000								-.1110		.0240		.0170		.0100	
150.000			.5970	.2160	-.0280	-.0630	-.1120	-.1040	-.0810	.1800	.2420	.1380	.0170	-.0710	-.0560
165.000				.2260	-.0190	-.0510	-.1010	-.0950	-.0770	.1830	.2590		.0520		-.1210
180.000	1.6790	1.4890	.6420	.2400	-.0050	-.0380	-.0920	-.0860	-.0690	.1960	.2850	.2310	.0630	.0000	-.0930
270.000		1.5570													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBT19)

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0170	-.0130	-.0100
30.000	-.0180	-.0060	-.0060
60.000	-.0200	-.0180	.0190
90.000			.0250
120.000	-.0820	.0080	.0240
135.000	-.0440	-.0210	-.0450
150.000	-.0130	-.0780	-.1490
165.000		-.0420	-.1450
180.000	-.0630		

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6590	1.4580	.6220	.2480	-.0110	-.0590	-.0940	-.0920	-.0760	-.0650	.1190	.0440	-.0250	-.0540	-.0230
30.000			.5480	.1780	-.0480	-.0940	-.1250	-.1180	-.0950	.0990	-.0790	-.0570	-.0660	-.0930	-.0510
60.000			.5020	.1400	-.0690	-.0920	-.1360	-.1290	.0120	.1740	-.0050	.1290	-.0180	.0220	-.0200
90.000		1.3430	.4930	.1310	-.0760	.0000	-.1420	-.1330	.1870	.2120	-.2330	-.0010	-.0090	-.0270	-.0570
120.000			.4970	.1440	-.0680	-.0930	-.1370	-.1260	.0240	.1540	.0250	-.0300	.0550	.0070	-.0510
135.000								-.1200		.0200		-.0100		-.0060	
150.000			.5460	.1810	-.0430	-.0740	-.1190	-.1120	-.0870	.1820	.2100	.1060	-.0210	-.0910	-.0630
165.000				.2010	-.0320	-.0590	-.1080	-.1020	-.0700	.1580	.2210		.0050		-.1500
180.000	1.6590	1.4690	.6220	.2330	-.0110	-.0460	-.0960	-.0980	-.0520	.1360	.2740	.1780	.0250	.0110	-.0650
270.000		1.5860													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0310	-.0370	-.0300
30.000	-.0200	-.0170	-.0160
60.000	-.0370	-.0150	.0050
90.000			.0130
120.000	-.0810	-.0150	-.0110
135.000	-.0600	-.0500	-.0430
150.000	-.0410	-.1490	-.0970
165.000		-.1140	-.1500
180.000	-.0650		

(RBOY19)

BETAT (7) = 8.020

DEPENDENT VARIABLE CP

PHI			
.000	-.0540	-.0700	-.0600
30.000	-.0380	-.0280	-.0310
60.000	-.0430	-.0210	-.0060
90.000			-.0130
120.000	-.0840	-.0440	.0030
135.000	-.0980	-.0920	-.0680
150.000	-.0740	-.1850	-.1420
165.000		-.1740	-.1480
180.000	-.0520		

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO20) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4740	1.4240	.7090	.2960	-.0170	-.0830	-.1420	-.1280	-.1030	.0050	.0870	-.0120	-.0570	-.0670	.0170
30.000			.8260	.3750	.0480	-.0230	-.0900	-.0720	-.0390	.1270	-.0360	-.1300	-.0270	.0170	.0220
60.000			.8790	.4170	.0870	.0220	-.0630	-.0440	.2870	.2970	-.1840	-.1120	-.0130	.0450	.0720
90.000	1.5090		.8490	.3550	.0630	.0000	-.0780	-.0680	.5740	-.0530	-.3030	-.1240	.0180	.0930	.0830
120.000			.7450	.3060	-.0020	-.0570	-.1300	-.1200	.1590	.0280	-.2380	-.0830	.0160	.1210	.0730
135.000								-.1540		.0170	.0800			.1250	
150.000			.6090	.2000	-.0820	-.1250	-.1900	-.1840	-.1400	.0490	.1800	.0610	-.0220	.0790	.0650
165.000				.1460	-.1170	-.1570	-.2180	-.2090	-.0970	.1500	.2220		-.0790		-.0180
180.000	1.4740	1.2380	.4990	.1030	-.1440	-.1820	-.2400	-.2280	.0450	.1320	.0970	-.0250	-.1370	-.1450	-.1580
270.000		1.1470													

X/LT .7449 .8526 .9290

PHI

.000	-.0330	.0440	.0390
30.000	.0010	.0210	.0730
60.000	.0280	.0680	.0390
90.000		-.1210	
120.000	.0940	.3880	.3030
135.000	.0830	.4460	.3040
150.000	.0460	.4640	.2920
165.000		.5050	.2620
180.000	.0010		

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5070	1.4530	.7210	.2880	-.0200	-.0830	-.1450	-.1310	-.0930	.0290	.1370	.0070	-.0540	-.0750	.0370
30.000			.8040	.3520	.0280	-.0410	-.1090	-.0880	-.0570	.1260	-.0080	-.0680	-.0350	.0070	.0250
60.000			.8390	.3720	.0510	-.0110	-.0920	-.0760	.2420	.3010	-.1820	-.1230	-.0130	.0460	.0520
90.000	1.4950		.8000	.3400	.0260	.0000	-.1120	-.0970	.5420	-.0570	-.3070	-.1400	.0110	.0870	.0640
120.000			.7070	.2730	-.0320	-.0860	-.1530	-.1440	.1300	.0320	-.2290	-.1230	.0070	.0980	.0420
135.000								-.1710		.0330		.0330		.1020	
150.000			.6040	.1870	-.0060	-.1380	-.2030	-.1950	-.1410	.0980	.1930	.0370	-.0380	.0480	.0170

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RROT20)

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.1410	-.1250	-.1650	-.2240	-.2070	-.1170	.1590	.2200		-.0800		-.0550
180.000	1.5070	1.2680	.5160	.1070	-.1430	-.1820	-.2330	-.2180	.0460	.1300	.1470	.0130	-.0820	-.1530	-.1520
270.000		1.2140													

X/LT .7449 .8526 .9290

PHI

.000	-.0290	-.0230	.0590
30.000	.0030	.0060	.0320
60.000	.0200	.0620	.0280
90.000		-.1430	
120.000	.0480	.3450	.2700
135.000	.0350	.3940	.2740
150.000	.0490	.3790	.2730
165.000		.4860	.2080
180.000	-.0560		

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5270	1.4650	.7300	.2930	-.0160	-.0850	-.1490	-.1310	-.0920	.0530	.1660	.0280	-.0550	-.0820	.0480
30.000			.7800	.3320	.0140	-.0550	-.1300	-.1070	-.0700	.1170	.0230	-.0460	-.0440	.0000	.0060
60.000			.7830	.3290	.0180	-.0480	-.1150	-.0980	.2160	.3160	-.1760	-.1520	-.0140	.0470	.0280
90.000	1.4680		.7410	.2930	-.0190	.0000	-.1360	-.1270	.5130	-.0580	-.2960	-.1530	.0100	.0790	.0490
120.000			.6630	.2340	-.0620	-.1150	-.1680	-.1600	.1190	.0450	-.2270	-.2020	.0120	.0800	.0040
135.000								-.1770		.0620		-.0210		.1100	
150.000			.5860	.1740	-.1010	-.1510	-.2130	-.1910	-.1540	.1450	.1940	-.0170	-.0630	.0440	-.0080
165.000				.1430	-.1210	-.1640	-.2240	-.2140	-.0220	.1860	.2040		-.0650		-.0690
180.000	1.5270	1.2920	.5290	.1160	-.1350	-.1780	-.2350	-.2220	.0410	.1110	.1240	.0680	-.0630	-.1580	.0040
270.000		1.2820													

X/LT .7449 .8526 .9290

PHI

.000	-.0110	.0010	.0180
30.000	-.0020	.0170	.0510
60.000	.0130	.0570	.0330
90.000		-.1590	
120.000	.0340	.3010	.2190
135.000	.0590	.3390	.2160
150.000	.0520	.3420	.2160

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RBDT20)

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3830 .1550

180.000 -.0260

MACH (1) = 1.555

BETAT (4) = -.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5360 1.4670 .7370 .3030 -.0060 -.0720 -.1370 -.1170 -.0820 -.0170 .1980 .0580 -.0450 -.0870 .0020

30.000 .7220 .2890 -.0120 -.0790 -.1450 -.1190 -.0870 .1360 .0410 .0140 -.0540 -.0440 -.0210

60.000 .6810 .2520 -.0360 -.0900 -.1590 -.1430 .1780 .3560 -.1520 -.1640 -.0110 .0330 -.0060

90.000 1.3810 .6270 .2050 -.0700 .0000 -.1850 -.1740 .4570 -.0590 -.3060 -.1380 .0330 .0420 .0150

120.000 .5800 .1670 -.1020 -.1450 -.2020 -.1890 .1050 .1000 .2870 -.1330 .0630 .0400 -.0490

135.000 .5420 .1440 -.1160 -.1600 -.2140 -.1990 -.0220 .1720 .1900 -.0240 -.0720 -.0070 .0350

150.000 .1290 -.1240 -.1610 -.2170 -.2020 .0600 .1700 .1900 -.0610 .0870

165.000 1.5360 1.3020 .5300 .1230 -.1230 -.1650 -.2210 -.2040 .0790 .1200 .1620 .1590 -.0630 -.1580 .1040

270.000 1.3800

X/LT .7449 .8526 .9290

PHI

.000 .0020 .0230 .0230

30.000 .0040 .0250 .0500

60.000 .0300 .0280 .0420

90.000 -.0290

120.000 .0410 .1950 .1090

135.000 .0290 .2150 .0890

150.000 .0010 .1960 .0620

165.000 .1450 -.0080

180.000 .0100

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RBO720)

MACH (1) = 1.555

BETAT (5) = 3.960

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5340	1.4700	.7430	.3070	.0000	-.0680	-.1310	-.1140	-.0870	-.0380	.1680	.0370	-.0520	-.0920	.0220
30.000			.6670	.2460	-.0450	-.1100	-.1630	-.1490	-.0870	.1110	.0840	-.0110	-.0900	-.0730	-.0280
60.000			.5850	.1790	-.0870	-.1390	-.2020	-.1890	.1360	.4000	-.1150	-.1210	.0140	.0020	-.0350
90.000		1.2880	.5260	.1320	-.1250	.0000	-.2270	-.2120	.4030	-.0660	-.3060	-.1000	.0390	-.0150	-.0170
120.000			.4870	.1120	-.1390	-.1770	-.2330	-.2140	.0840	.1310	-.2030	-.1320	.0170	-.0120	-.0660
135.000								-.2170		.0660		-.0420		-.0230	
150.000			.4880	.1150	-.1410	-.1780	-.2270	-.2120	.0800	.1610	.1850	-.0440	-.1380	-.0910	.0300
165.000				.1130	-.1370	-.1720	-.2250	-.2090	.0670	.1480	.1100		-.1280		.0500
180.000	1.5340	1.2960	.5210	.1190	-.1300	-.1680	-.2240	-.2040	.0260	.2350	.1010	.0450	-.0810	-.1570	.0540
270.000		1.4710													

X/LT	.7449	.8526	.9290
PHI			
.000	.0020	.0110	.0310
30.000	-.0140	.0160	.0210
60.000	.0110	.0120	.0320
90.000			.0150
120.000	.0040	.0490	.0850
135.000	-.0140	.0110	.0620
150.000	-.0380	-.0620	-.0080
165.000		-.0660	-.0970
180.000	-.0140		

MACH (1) = 1.555

BETAT (6) = 6.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5080	1.4430	.7340	.3070	-.0040	-.0700	-.1340	-.1220	-.0920	.0310	.1230	.0130	-.0500	-.0720	.0220
30.000			.6280	.2200	-.0720	-.1300	-.1830	-.1680	-.1120	.1120	.0740	-.0170	-.0960	-.0660	-.0480
60.000			.5370	.1390	-.1160	-.1650	-.2260	-.2080	.1070	.4170	-.0850	-.1000	.0320	-.0140	-.0580
90.000		1.2210	.4860	.0870	-.1450	.0000	-.2450	-.2270	.3710	-.0650	-.3180	-.0230	.0180	-.0650	-.0490
120.000			.4550	.0690	-.1500	-.1910	-.2460	-.2270	.0530	.1600	-.1430	-.1420	-.0070	-.0260	-.0600
135.000								-.2260		.0920		-.0700		-.0260	
150.000			.4690	.0900	-.1520	-.1890	-.2410	-.2250	.0610	.2280	.1510	-.0490	-.1650	-.0780	-.0130
165.000				.1030	-.1470	-.1860	-.2400	-.2220	.0270	.2460	.0910		-.1500		-.0030
180.000	1.5080	1.2760	.5150	.1220	-.1310	-.1760	-.2300	-.2070	-.0700	.2330	.1270	.0110	-.0920	-.1540	-.1020
270.000		1.4920													

X/LT	.7449	.8526	.9290
PHI			

PHI

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK

(RDOT20)

MACH (1) = 1.555

BETAT (6) = 6.015

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0280	-.0110	.0700
30.000	-.0260	.0660	.0660
60.000	-.0070	.0670	.0620
90.000			.0270
120.000	.0160	.1100	.0590
135.000	-.0300	.0450	-.0010
150.000	-.0460	-.0780	-.1040
165.000		-.0920	-.1370
180.000	-.0470		

MACH (1) = 1.555

BETAT (7) = 8.080

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5030	1.4330	.7150	.3020	-.0100	-.0750	-.1400	-.1300	-.1030	.0120	.0690	-.0130	-.0480	-.0610	.0100
30.000			.5800	.1880	-.0990	-.1570	-.2030	-.1880	-.1170	.1230	.0890	-.0230	-.1000	-.0690	-.0640
60.000			.4830	.0980	-.1510	-.1930	-.2460	-.2200	.0340	.2980	-.0380	-.0710	.0170	-.0500	.0320
90.000		1.1810	.4330	.0530	-.1730	.0000	-.2590	-.2380	.3380	-.0670	-.2880	.0170	-.0190	-.1500	.0540
120.000			.4130	.0420	-.1790	-.2170	-.2590	-.2360	.0370	.1920	-.0940	-.1350	-.0540	-.0430	-.0220
135.000								-.2390		.0390		-.0830		-.0450	
150.000			.4320	.0650	-.1740	-.2100	-.2570	-.2240	.0370	.2330	.1360	-.0770	-.2020	-.1060	.0010
165.000				.0870	-.1630	-.2010	-.2470	-.2100	-.0060	.1870	.0500		-.1880		-.0480
180.000	1.5030	1.2710	.5040	.1150	-.1430	-.1830	-.2340	-.2050	-.0610	.2250	.1000	-.0360	-.1350	-.1500	-.1590
270.000		1.5280													

X/LT .7449 .8526 .9290

PHI

.000	-.0340	.0390	.0500
30.000	.0470	.0410	.0220
60.000	.0370	.0220	.0180
90.000			-.0080
120.000	.0040	.0140	.0260
135.000	-.0220	-.0550	-.0380
150.000	-.0090	-.1830	-.1280
165.000		-.1300	-.1380
180.000	-.0010		

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RROT20)

MACH (2) = 2.000

BETAT (1) = -8.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6200	1.5300	.7130	.3190	.0480	-.0090	-.0590	-.0570	-.0470	-.0400	.1030	.0380	.0080	-.0220	.0220
30.000			.8270	.3960	.1060	.0420	-.0150	-.0060	.0050	.1730	.0950	-.0210	-.0300	.0100	.0400
60.000			.8780	.4370	.1320	.0800	.0080	.0210	.0680	.4490	-.0360	-.0570	-.0180	.0250	.0860
90.000		1.6060	.8450	.4160	.1140	.0000	-.0010	.0000	.3720	.2120	-.2250	-.2240	.0300	.1480	.1250
120.000			.7370	.3350	.0590	.0120	-.0440	-.0400	.0950	.1850	-.1970	-.1740	.0260	.1930	.1090
135.000								-.0690		.0920		-.0610		.1630	
150.000			.6080	.2360	-.0100	-.0480	-.0980	-.0950	-.0580	.0990	.1490	.1110	.0610	.0490	.0920
165.000				.1830	-.0400	-.0730	-.1210	-.1140	-.0670	.0470	.3550		.0320		.0150
180.000	1.6200	1.3520	.4960	.1450	-.0660	-.0930	-.1370	-.1150	-.0700	.0700	.2870	.0090	-.0110	-.0800	-.0730
270.000		1.2710													

X/LT .7449 .8526 .9290

PHI

.000	-.0170	-.0190	-.0280
30.000	.0300	.0120	.0300
60.000	.0710	.0650	.0870
90.000		.0100	
120.000	.1310	.2590	.2960
135.000	.1120	.3330	.2610
150.000	.1050	.2850	.2710
165.000		.6400	.2570
180.000	-.0410		

MACH (2) = 2.000

BETAT (2) = -6.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6300	1.5330	.7160	.3230	.0380	-.0150	-.0590	-.0540	-.0380	-.0230	.1360	.0450	.0140	-.0050	.0290
30.000			.7980	.3720	.0810	.0210	-.0260	-.0120	.0000	.1770	.1010	-.0110	-.0140	.0000	.0260
60.000			.8280	.3830	.1050	.0630	-.0090	.0010	.0400	.4650	-.0350	-.0710	-.0380	.0040	.0700
90.000		1.5710	.7890	.3620	.0840	.0000	-.0240	-.0180	.3580	.2150	-.2240	-.2280	.0070	.1190	.1030
120.000			.7000	.2920	.0320	-.0030	-.0580	-.0560	.0840	.1850	-.2000	-.1060	.0260	.1590	.0790
135.000								-.0780		.0880		-.0440		.1150	
150.000			.5960	.2110	-.0250	-.0510	-.1000	-.0970	-.0610	.1110	.2490	.0960	.0530	.0220	.0760
165.000				.1760	-.0520	-.0760	-.1180	-.1130	-.0710	.0680	.3580		.0400		-.0050
180.000	1.6300	1.3560	.5140	.1450	-.0680	-.0910	-.1330	-.1240	-.0860	.0970	.2950	.1210	.0080	-.0300	-.0660
270.000		1.3130													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT20)

MACH (2) = 2.000

BETAT (2) = -6.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0030	-.0030	-.0070
30.000	.0290	.0160	.0310
60.000	.0530	.0480	.0760
90.000			-.0170
120.000	.1090	.1970	.2350
135.000	.0770	.2890	.2120
150.000	.0710	.2450	.1880
165.000		.5080	.1800
180.000	-.0640		

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6520	1.5470	.7300	.3300	.0450	-.0070	-.0530	-.0460	-.0220	-.0090	.1610	.0880	.0290	.0010	.0290
30.000			.7740	.3600	.0780	.0200	-.0250	-.0120	.0010	.1760	.0720	.0060	-.0010	-.0020	.0270
60.000			.7750	.3590	.0920	.0470	-.0140	-.0110	.0130	.4730	-.0360	-.0730	-.0560	-.0330	.0620
90.000		1.5380	.7310	.3260	.0670	.0000	-.0340	-.0280	.3370	.2070	-.2260	-.2380	.0160	.1100	.0920
120.000			.6570	.2700	.0220	-.0100	-.0650	-.0610	.0500	.1820	-.1960	-.1510	.0210	.1460	.0690
135.000								-.0770		.0810		.0150		.0990	
150.000			.5840	.2080	-.0230	-.0530	-.0960	-.0910	-.0610	.0880	.3140	.0730	.0380	.0010	.0330
165.000				.1780	-.0460	-.0690	-.1140	-.1040	-.0710	.1020	.3510		.0420		-.0290
180.000	1.6520	1.3800	.5260	.1570	-.0580	-.0810	-.1270	-.1190	-.0950	.1470	.2920	.1950	.0410	-.0290	-.1000
270.000		1.3750													

X/LT .7449 .8526 .9290

PHI

.000	.0090	.0110	.0110
30.000	.0220	.0160	.0280
60.000	.0450	.0280	.0710
90.000			.0130
120.000	.0590	.1510	.2040
135.000	.0610	.2320	.1770
150.000	.0340	.2560	.1240
165.000		.4450	.1090
180.000	.0350		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2039

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBO220)

MACH (2) = 2.000

BETAT (4) = -.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6650	1.5520	.7480	.3460	.0660	.0070	-.0440	-.0380	-.0200	.0000	.1620	.1170	.0530	.0060	.0050
30.000			.7460	.3240	.0600	-.0010	-.0480	-.0420	-.0260	.1530	-.0010	.0700	.0280	-.0030	-.0040
60.000			.7100	.2990	.0340	-.0070	-.0660	-.0630	-.0420	.4470	-.0200	-.0800	-.0620	-.0010	.0520
90.000		1.4780	.6600	.2610	-.0030	.0000	-.0920	-.0830	.2790	.1960	-.2260	-.2380	.0370	.0970	.0640
120.000			.6090	.2180	-.0240	-.0590	-.1070	-.1000	-.0270	.1860	-.1840	-.1440	.0090	.1240	.0310
135.000								-.1060		.1300		-.0190		.0430	
150.000			.5660	.1820	-.0380	-.0710	-.1190	-.1110	-.0890	.1590	.2240	.0620	.0500	-.0440	-.0200
165.000			.1730	-.0460	-.0740	-.1200	-.1130	-.0880	.1540	.2910		.0950		-.0650	
180.000	1.6650	1.3950	.5460	.1700	-.0510	-.0750	-.1220	-.1130	-.0840	.1520	.2650	.1390	.1180	-.0060	-.1070
270.000		1.4550													

X/LT .7449 .8526 .9290

PHI

.000	.0090	.0160	.0140
30.000	.0120	.0150	.0180
60.000	.0090	-.0010	.0540
90.000			.0270
120.000	-.0090	.0750	.1260
135.000	-.0090	.1350	.0620
150.000	.0310	.1600	-.0070
165.000		.1790	-.0660
180.000	.1330		

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6600	1.5490	.7430	.3370	.0500	-.0050	-.0460	-.0410	-.0300	-.0160	.1580	.0900	.0220	.0010	.0280
30.000			.6720	.2660	.0100	-.0450	-.0790	-.0720	-.0300	.0700	-.0230	.0060	.0010	-.0310	-.0230
60.000			.5940	.2090	-.0290	-.0590	-.1090	-.1010	-.0520	.2860	.0130	-.0640	-.0430	.0220	.0280
90.000		1.3830	.5360	.1630	-.0600	.0000	-.1270	-.1220	.2300	.1870	-.2180	-.2280	.0860	.0910	.0130
120.000			.5030	.1420	-.0720	-.0960	-.1370	-.1300	.0170	.1990	-.1530	-.0990	.0580	.0510	-.0230
135.000								-.1320		.0030		.0110		-.0050	
150.000			.5090	.1430	-.0720	-.0960	-.1370	-.1320	-.0300	.1280	.2460	.1290	-.0200	-.1070	-.0700
165.000			.1480	-.0690	-.0910	-.1350	-.1310	-.1010	.1050	.2670		.0210		-.1640	
180.000	1.6600	1.3910	.5290	.1580	-.0590	-.0830	-.1300	-.1250	-.1030	.1050	.2740	.1880	.0540	-.0290	-.1010
270.000		1.5480													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RDOT20)

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0060	.0080	-.0030
30.000	-.0030	.0000	-.0020
60.000	-.0220	-.0120	.0330
90.000			.0290
120.000	-.0400	.0350	.0440
135.000	.0040	.0110	-.0080
150.000	.0300	-.0470	-.1080
165.000		-.0250	-.1190
180.000	.0590		

MACH (2) = 2.000

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6430	1.5370	.7330	.3370	.0500	-.0030	-.0510	-.0480	-.0360	-.0280	.0920	.0750	.0140	-.0130	.0180
30.000			.6240	.2430	-.0060	-.0560	-.0940	-.0900	-.0520	.0980	-.0150	.0170	.0050	-.0330	-.0240
60.000			.5310	.1710	-.0490	-.0840	-.1510	-.1240	-.0650	.2420	.0260	-.0560	-.0330	.0360	.0000
90.000		1.3320	.4810	.1260	-.0780	.0000	-.1480	-.1370	.2160	.1960	-.2140	-.2180	.0790	.0700	-.0300
120.000			.4540	.1110	-.0840	-.1110	-.1510	-.1390	.0050	.1730	-.1340	-.0800	.0290	.0170	-.0620
135.000								-.1390		-.0170		-.0090		-.0170	
150.000			.4660	.1230	-.0770	-.1060	-.1450	-.1370	-.1010	.1310	.2150	.0780	-.0410	-.1220	-.0820
165.000				.1330	-.0720	-.0990	-.1410	-.1340	-.0920	.1200	.2210		-.0100		-.1670
180.000	1.6430	1.3720	.5210	.1570	-.0630	-.0920	-.1360	-.1210	-.0820	.0930	.2670	.1040	.0160	-.0310	-.0780
270.000		1.5770													

X/LT .7449 .8526 .9290

PHI

.000	-.0100	-.0100	-.0250
30.000	-.0220	-.0170	-.0150
60.000	-.0440	-.0110	.0170
90.000			-.0020
120.000	-.0400	.0180	.0250
135.000	-.0180	-.0160	-.0350
150.000	-.0060	-.1080	-.0690
165.000		-.1100	-.1190
180.000	-.0690		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2041

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT20)

MACH (2) = 2.000

BETAT (7) = 8.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CF

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6270	1.5120	.7120	.3260	.0430	-.0110	-.0560	-.0540	-.0450	-.0380	.0170	.0390	-.0060	-.0370	.0050
30.000			.5810	.2110	-.0260	-.0770	-.1120	-.1100	-.0780	.1140	.0450	.0350	-.0150	-.0500	-.0260
60.000			.4820	.1290	-.0780	-.1090	-.1500	-.1460	-.0800	.0680	.0520	-.0340	-.0230	.0350	-.0320
90.000		1.2750	.4300	.0900	-.1020	.0000	-.1660	-.1590	.1630	.1920	-.2140	-.1920	.0940	.0380	-.1050
120.000			.4100	.0810	-.1060	-.1300	-.1670	-.1590	.0330	.1260	-.0720	-.0710	.0160	-.0240	-.1030
135.000								-.1580		-.0330		-.0180		-.0490	
150.000			.4350	.1010	-.0960	-.1230	-.1620	-.1340	-.0510	.1010	.2050	.0390	-.0740	-.1380	-.1010
165.000				.1210	-.0840	-.1120	-.1490	-.1250	-.0650	.0880	.1940		-.0610		-.1750
180.000	1.6270	1.3600	.4980	.1470	-.0650	-.0960	-.1400	-.1210	-.0800	.0560	.2650	-.0020	-.0270	-.0910	-.0820
270.000		1.6050													

X/LT	.7449	.8526	.9290
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PHI

.000	-.0300	-.0320	-.0500
30.000	-.0390	-.0350	-.0350
60.000	-.0580	-.0120	.0030
90.000			-.0210
120.000	-.0600	-.0020	.0490
135.000	-.0600	-.0570	-.0090
150.000	-.0420	-.1040	-.1140
165.000		-.1460	-.1240
180.000	-.0520		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT21) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

MACH (1) = 1.555

DETAT (1) = -8.330

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4640	1.4550	.7610	.3340	.0160	-.0520	-.1140	-.1030	-.0750	.0340	.1050	.0090	-.0300	-.0450	.0470
30.000			.8760	.4280	.0890	.0130	-.0620	-.0410	-.0120	.1860	.0040	-.0860	-.0090	.0350	.0440
60.000			.9170	.4460	.1090	.0410	-.0470	-.0290	.3200	.3480	-.1380	-.1040	.0000	.0620	.0860
90.000	1.4080		.8510	.3880	.0610	.0000	-.0840	-.0720	.5950	-.0570	-.2670	-.1830	-.0080	.0800	.1340
120.000			.7040	.2760	-.0280	-.0800	-.1500	-.1390	.1080	-.0520	-.2790	-.1360	.0260	.1170	.1080
135.000								-.1800		-.0450		-.0290		.1300	
150.000			.5560	.1580	-.1140	-.1580	-.2170	-.2120	-.1370	-.0030	.1350	.0400	-.0410	.0770	.0930
165.000			.1070	-.1490	-.1870	-.2430	-.2350	-.0480	.1850	.1870		-.0700		-.0100	
180.000	1.4640	1.1860	.4500	.0730	-.1720	-.2070	-.2620	-.2480	.0180	.1160	.0870	-.0330	-.1360	-.1520	-.1480
270.000		1.1390													

X/LT .7449 .8526 .9290

PHI

.000	-.0280	.0450	.0530
30.000	.0280	.0360	.0960
60.000	.0550	.0930	.0680
90.000			-.1420
120.000	.1030	.3890	.2870
135.000	.0950	.4270	.3050
150.000	.0660	.4690	.2780
165.000		.4620	.2410
180.000	.0310		

MACH (1) = 1.555

DETAT (2) = -6.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4900	1.4820	.7770	.3340	.0190	-.0520	-.1150	-.1030	-.0650	.0460	.1430	.0420	-.0210	-.0440	.0600
30.000			.8580	.3970	.0620	-.0070	-.0830	-.0590	-.0330	.1680	.0300	-.0420	-.0050	.0270	.0440
60.000			.8640	.3940	.0680	.0030	-.0800	-.0600	.2870	.3580	-.1330	-.1090	-.0040	.0570	.0690
90.000	1.4820		.7890	.3320	.0190	.0000	-.1180	-.1050	.5600	-.0630	-.2420	-.1810	-.0170	.0760	.1040
120.000			.6720	.2400	-.0560	-.1070	-.1740	-.1600	.0820	-.0520	-.2740	-.1460	.0030	.0970	.0730
135.000								-.1930		-.0250		-.0120		.0920	
150.000			.5490	.1470	-.1260	-.1690	-.2280	-.2130	-.1600	.0470	.1650	.0270	-.0490	.0350	.0400

{RBO21}

BETAT (2) = -6.290

DEPENDENT VARIABLE CF

[illegible]

PHI			
.000	-.0120	-.0300	.0450
30.000	.0240	.0180	.0510
60.000	.0430	.0860	.0550
90.000			-.1550
120.000	.0620	.3590	.2440
135.000	.0610	.3950	.2620
150.000	.0850	.4170	.2530
165.000		.4510	.1950
180.000	-.0220		

BETAT (3) = -4.230

DEPENDENT VARIABLE CP

[illegible]

PHI			
.000	.0020	.0050	.0260
30.000	.0140	.0260	.0760
60.000	.0220	.0700	.0620
90.000			-.1480
120.000	.0680	.3350	.2020
135.000	.0800	.3530	.2070
150.000	.0830	.3560	.2180

AMES 97-757 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBDT21)

MACH (1) = 1.555

BETAT (3) = -4.235

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .4060 .1630

180.000 .0000

MACH (1) = 1.555

BETAT (4) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5190 1.4950 .7870 .3470 .0320 -.0390 -.1060 -.0910 -.0590 -.0010 .2190 .0830 -.0160 -.0500 .0200

30.000 .7610 .3250 .0140 -.0550 -.1210 -.1010 -.0700 .1630 .0400 .0440 -.0180 -.0260 -.0060

60.000 .6940 .2680 -.0240 -.0770 -.1500 -.1350 .2010 .4180 -.1010 -.1130 -.0080 .0490 .0030

90.000 1.3640 .6140 .1980 -.0770 .0000 -.1900 -.1770 .4530 -.0710 -.3700 -.2710 .0170 .0270 .0170

120.000 .5410 .1370 -.1200 -.1600 -.2170 -.2010 .0470 .0590 -.1920 -.2160 .0370 .0560 -.0420

135.000 .2130 .1110 -.1070 .0220

150.000 .4940 .1050 -.1380 -.1800 -.2340 -.2150 .0360 .1240 .1640 -.0210 -.1020 -.0510 .0810

165.000 .0910 -.1470 -.1810 -.2350 -.2180 .0370 .1390 .1780 -.0660 .1590

180.000 1.5190 1.2440 .4800 .0860 -.1490 -.1850 -.2380 -.2210 .0470 .1100 .1750 .1500 -.0680 -.1550 .1880

270.000 1.3700

X/LT .7449 .8526 .9290

PHI

.000 .0110 .0310 .0300

30.000 .0070 .0300 .0610

60.000 .0340 .0360 .0600

90.000 -.0010

120.000 .0510 .2330 .1220

135.000 .0510 .2460 .1320

150.000 .0350 .2250 .1150

165.000 .1440 .0310

180.000 .0410

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(R80T21)

MACH (1) = 1.555

BETAT (5) = 3.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5100	1.4890	.7920	.3570	.0360	-.0330	-.1020	-.0880	-.0620	-.0280	.1980	.0690	-.0190	-.0540	.0350
30.000			.7010	.2850	-.0180	-.0840	-.1450	-.1340	-.0890	.1490	.1240	.0220	-.0540	-.0520	-.0210
60.000			.5920	.1980	-.0800	-.1320	-.2000	-.1820	.1420	.4570	-.0580	-.0630	.0140	.0140	-.0340
90.000		1.2650	.5130	.1260	-.1310	.0000	-.2340	-.2180	.3910	-.0820	-.3640	-.2590	-.0220	-.0700	-.0300
120.000			.4620	.0910	-.1510	-.1930	-.2450	-.2260	.0630	.0670	-.0860	-.1760	.0270	-.0040	-.0290
135.000								-.2280		.1050		-.0680		-.0140	
150.000			.4510	.0840	-.1550	-.1950	-.2410	-.2270	.0510	.1110	.1110	-.0030	-.1610	-.0870	.0620
165.000				.0810	-.1540	-.1900	-.2400	-.2240	.0550	.2000	.1020		-.1210		.0860
180.000	1.5100	1.2320	.4730	.0850	-.1510	-.1870	-.2400	-.2210	.0550	.1740	.0980	.0970	-.0710	-.1530	.1010
270.000		1.4500													

X/LT .7449 .8526 .9290

PHI

.000	.0100	.0170	.0330
30.000	-.0200	.0160	.0280
60.000	.0070	.0140	.0390
90.000			.0240
120.000	.0210	.0800	.1240
135.000	.0210	.0230	.1180
150.000	.0020	-.0570	.0740
165.000		-.0790	-.0650
180.000	.0120		

MACH (1) = 1.555

BETAT (6) = 6.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4970	1.4790	.7880	.3570	.0300	-.0390	-.1070	-.0920	-.0650	.0450	.1280	.0420	-.0170	-.0410	.0440
30.000			.6680	.2480	-.0480	-.1120	-.1670	-.1510	-.0990	.1270	.1320	.0120	-.0640	-.0420	-.0370
60.000			.5520	.1430	-.1100	-.1610	-.2240	-.2070	.0910	.3640	-.0230	-.0320	.0200	-.0050	-.0600
90.000		1.2130	.4750	.0740	-.1530	.0000	-.2490	-.2380	.3360	-.0900	-.3460	-.2320	-.0510	-.1420	-.0520
120.000			.4320	.0530	-.1710	-.2090	-.2560	-.2330	.0400	.0840	-.0260	-.1690	.0030	-.0260	-.0440
135.000								-.2350		.0930		-.0790		-.0340	
150.000			.4320	.0600	-.1690	-.2080	-.2540	-.2350	.0430	.1700	.1220	-.0320	-.1780	-.1090	.0130
165.000				.0680	-.1690	-.2060	-.2540	-.2330	.0330	.2160	.0880		-.1430		.0300
180.000	1.4970	1.2190	.4670	.0850	-.1610	-.2010	-.2500	-.2140	-.0570	.2090	.1410	.0200	-.0750	-.1580	-.1120
270.000		1.4850													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBDT21)

MACH (1) = 1.555

BETAT (6) = 6.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0100	-.0090	.0590
30.000	-.0430	.0520	.0770
60.000	-.0020	.0740	.0780
90.000			.0510
120.000	.0490	.1050	.0750
135.000	.0350	.0510	.0380
150.000	.0070	-.0820	-.0430
165.000		-.0850	-.0980
180.000	-.0090		

MACH (1) = 1.555

BETAT (7) = 8.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4840	1.4630	.7670	.3490	.0240	-.0420	-.1090	-.1010	-.0710	.0470	.0800	.0110	-.0150	-.0340	.0370
30.000			.6200	.2170	-.0780	-.1370	-.1870	-.1720	-.1150	.1460	.1060	-.0040	-.0640	-.0540	-.0530
60.000			.4940	.1060	-.1430	-.1880	-.2440	-.2060	.0150	.3270	.0240	-.0110	.0120	-.0350	-.0520
90.000		1.1600	.4250	.0420	-.1770	.0000	-.2670	-.2460	.3360	-.0940	-.3500	-.1960	-.0850	-.2010	.0070
120.000			.3910	.0370	-.1870	-.2230	-.2650	-.2390	.0220	.1070	-.0030	-.1640	-.0300	-.0370	-.0060
135.000								-.2430		.0670		-.0970		-.0600	
150.000			.4000	.0410	-.1880	-.2190	-.2630	-.2370	.0320	.2050	.1430	-.0540	-.2070	-.1260	.0250
165.000				.0540	-.1810	-.2150	-.2530	-.2250	.0030	.1600	.0790		-.1650		.0160
180.000	1.4840	1.2070	.4500	.0790	-.1670	-.2030	-.2520	-.2150	-.0330	.1670	.1080	-.0140	-.1160	-.1490	-.1450
270.000		1.5140													

X/LT .7449 .8526 .9290

PHI

.000	-.0300	.0470	.0570
30.000	.0520	.0420	.0280
60.000	.0460	.0410	.0330
90.000			.0180
120.000	.0210	.0210	.0380
135.000	.0210	-.0540	-.0270
150.000	.0340	-.1900	-.0960
165.000		-.1490	-.1330
180.000	.0340		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A93

PAGE 2047

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT21)

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6090	1.5630	.7710	.3610	.0750	.0160	-.0350	-.0320	-.0240	-.0150	.1300	.0640	.0270	-.0020	.0500
30.000			.8800	.4450	.1350	.0680	.0100	.0200	.0320	.2100	.1370	.0180	.0100	.0410	.0510
60.000			.9090	.4600	.1480	.0950	.0230	.0330	.0740	.5260	.0100	-.0140	.0170	.0490	.0990
90.000		1.5940	.8390	.4050	.1110	.0000	-.0060	.0000	.3850	.2020	-.2060	-.1960	-.1100	.1250	.1160
120.000			.6970	.3010	.0330	-.0060	-.0630	-.0530	.0620	.1210	-.2330	-.2060	-.0210	.1450	.0780
135.000								-.0880		.0580		-.1080		.1250	
150.000			.5550	.1920	-.0450	-.0740	-.1190	-.1140	-.0840	.0020	.0130	.1100	.0380	.0550	.1270
165.000				.1440	-.0730	-.0990	-.1420	-.1250	-.0810	.0410	.3080		.0020		.0510
180.000	1.6090	1.3000	.4520	.1100	-.0930	-.1160	-.1530	-.1240	-.0670	.0500	.2630	-.0240	-.0150	-.0920	-.0570
270.000		1.2590													

X/LT .7449 .8526 .9290

PHI	.0050	.0050	-.0090
.000	.0050	.0050	-.0090
30.000	.0490	.0410	.0530
60.000	.0740	.0730	.1100
90.000			.0160
120.000	.1410	.3010	.2930
135.000	.1180	.3330	.2600
150.000	.1210	.2880	.2960
165.000		.6330	.3030
180.000	-.0500		

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6230	1.5730	.7770	.3780	.0770	.0160	-.0310	-.0250	-.0110	.0050	.1450	.0770	.0330	.0140	.0590
30.000			.8560	.4190	.1180	.0570	.0020	.0150	.0300	.2170	.1280	.0270	.0190	.0280	.0380
60.000			.8590	.4210	.1260	.0810	.0080	.0170	.0560	.5420	.0080	-.0320	-.0050	.0270	.0790
90.000		1.5690	.7860	.3560	.0900	.0000	-.0230	-.0100	.3750	.2010	-.2070	-.2070	-.1200	.0960	.1020
120.000			.6560	.2660	.0210	-.0160	-.0710	-.0590	.0550	.1090	-.2420	-.1510	-.0530	.1300	.0600
135.000								-.0910		.0480		-.1180		.1060	
150.000			.5370	.1770	-.0440	-.0740	-.1190	-.1140	-.0830	.0190	.1240	.0810	.0220	.0210	.0780
165.000				.1390	-.0690	-.0920	-.1370	-.1270	-.0820	.0700	.3010		.0330		.0020
180.000	1.6230	1.3110	.4560	.1120	-.0860	-.1090	-.1460	-.1300	-.0810	.0780	.2900	.0440	-.0050	-.0480	-.0800
270.000		1.3040													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 CCA + S3 + T9 EXTERNAL TANK

(R90T21)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0160	.0140	.0100
30.000	.0480	.0400	.0450
60.000	.0610	.0570	.1010
90.000			.0310
120.000	.0950	.2110	.2580
135.000	.0830	.2960	.2230
150.000	.0780	.2410	.2210
165.000		.5920	.2000
180.000	-.0640		

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6400	1.5810	.7900	.3810	.0860	.0260	-.0260	-.0180	.0010	.0140	.1870	.1130	.0460	.0200	.0620
30.000			.8270	.4070	.1220	.0570	-.0010	.0140	.0250	.2120	.0790	.0480	.0320	.0240	.0360
60.000			.8000	.3910	.1160	.0660	-.0020	.0050	.0210	.5500	.0080	-.0390	-.0180	.0200	.0740
90.000		1.5280	.7280	.3300	.0730	.0000	-.0360	-.0300	.3460	.1950	-.2550	-.2110	-.1180	.0940	.0980
120.000			.6240	.2520	.0160	-.0270	-.0790	-.0730	.0280	.1100	-.2340	-.1540	-.0590	.1050	.0610
135.000								-.0980		.0490		-.0860		.0840	
150.000			.5310	.1820	-.0370	-.0690	-.1160	-.1140	-.0800	.0660	.2790	.0510	.0300	.0110	.0250
165.000				.1520	-.0560	-.0880	-.1300	-.1230	-.0870	.0920	.2980		.0400		-.0250
180.000	1.6400	1.3290	.4720	.1290	-.0720	-.1010	-.1400	-.1300	-.0940	.1400	.2990	.1710	.0380	-.0420	-.1060
270.000		1.3650													

X/LT .7449 .8526 .9290

PHI

.000	.0260	.0260	.0280
30.000	.0400	.0420	.0410
60.000	.0520	.0360	.0880
90.000			.0310
120.000	.0660	.1810	.2160
135.000	.0500	.2510	.1830
150.000	.0470	.2710	.1570
165.000		.4860	.1280
180.000	.0680		

AVES 97-757 IA9 O2A + S3 + T9 EXTERNAL TANK

(RDOT21)

MACH (2) = 2.000

DETAT (4) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6640	1.5970	.8010	.3910	.1030	.0430	-.0150	-.0110	.0010	.0320	.1700	.1380	.0790	.0330	.0360
30.000			.7890	.3670	.0900	.0280	-.0250	-.0210	-.0110	.1130	.0710	.0640	.0490	.0230	.0080
60.000			.7300	.3240	.0450	.0020	-.0590	-.0520	-.0330	.4840	.0230	-.0410	-.0220	.0070	.0570
90.000		1.4830	.6460	.2520	.0000	.0000	-.0900	-.0860	.2870	.1790	-.2070	-.2000	-.1180	.0570	.0560
120.000			.5640	.1870	-.0360	-.0700	-.1170	-.1110	-.0650	.1020	-.2320	-.1160	-.0610	.0770	.0310
135.000								-.1200		.0420		-.0330		-.0190	
150.000			.5130	.1530	-.0570	-.0890	-.1340	-.1250	-.1000	.1270	.2120	.0780	.0570	-.0560	-.0180
165.000				.1370	-.0620	-.0920	-.1360	-.1270	-.1000	.1180	.2730		.0620		-.0620
180.000	1.6640	1.3550	.4930	.1340	-.0640	-.0950	-.1380	-.1260	-.0950	.1210	.2770	.0600	.1000	-.0110	-.0080
270.000		1.4540													

X/LT .7449 .8526 .9290

PHI

.000	.0180	.0270	.0270
30.000	.0250	.0320	.0200
60.000	.0220	.0100	.0660
90.000			.0380
120.000	-.0090	.1060	.1340
135.000	.0160	.1530	.0910
150.000	.0550	.1820	.0240
165.000		.1860	-.0460
180.000	.1510		

MACH (2) = 2.000

DETAT (5) = 3.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6530	1.5920	.8040	.3960	.0810	.0250	-.0250	-.0200	-.0060	.0170	.1890	.1160	.0470	.0150	.0520
30.000			.7180	.3040	.0330	-.0260	-.0650	-.0600	-.0110	.1040	-.0070	.0140	.0160	-.0020	-.0110
60.000			.6140	.2230	-.0220	-.0560	-.1070	-.1010	-.0340	.2830	.0600	-.0230	-.0030	.0110	.0400
90.000		1.3800	.5360	.1540	-.0670	.0000	-.1360	-.1250	.2290	.1640	-.1980	-.1980	-.0870	.0450	-.0190
120.000			.4800	.1200	-.0860	-.1080	-.1480	-.1380	.0250	.1410	-.1950	-.0720	-.0570	.0270	-.0170
135.000								-.1400		.0100		-.0050		-.0690	
150.000			.4690	.1110	-.0930	-.1160	-.1550	-.1410	.0470	.0940	.2270	.0010	-.0250	-.0080	-.0710
165.000				.1110	-.0920	-.1140	-.1530	-.1390	-.0190	.0770	.2640		.0080		-.1610
180.000	1.6530	1.3430	.4890	.1210	-.0850	-.1090	-.1490	-.1360	-.1120	.0850	.2620	.1490	.0400	-.0400	-.0960
270.000		1.5430													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT21)

MACH (2) = 2.000

DETAT (5) = 3.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0180	.0230	.0180
30.000	.0060	.0150	.0000
60.000	-.0060	-.0070	.0330
90.000			.0330
120.000	-.0120	.0500	.0570
135.000	.0220	.0190	.0070
150.000	.0510	-.0300	-.0730
165.000		-.0180	-.0980
180.000	.0520		

MACH (2) = 2.000

DETAT (6) = 6.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6330	1.5680	.7860	.3790	.0890	.0270	-.0270	-.0220	-.0130	-.0120	.1160	.0790	.0330	.0040	.0490
30.000			.6650	.2800	.0220	-.0330	-.0770	-.0730	-.0320	.1420	.0310	.0570	.0260	-.0080	-.0110
60.000			.5470	.1860	-.0400	-.0760	-.1250	-.1140	-.0500	.0880	.0810	-.0080	.0080	.0210	.0180
90.000		1.3210	.4650	.1230	-.0760	.0000	-.1500	-.1430	.1660	.1670	-.1920	-.1880	-.0620	.0250	-.0570
120.000			.4200	.1030	-.0900	-.1100	-.1570	-.1490	.0170	.1130	-.1840	.0140	-.0670	.0200	-.0490
135.000							-.1500		.0140		-.0120		-.0640		
150.000			.4260	.1020	-.0870	-.1200	-.1570	-.1480	-.0040	.0980	.2020	.0420	-.0480	-.1200	-.0910
165.000				.1060	-.0860	-.1150	-.1540	-.1470	-.1000	.1190	.2260		-.0180		-.1630
180.000	1.6330	1.3300	.4640	.1260	-.0810	-.1110	-.1480	-.1380	-.0970	.0760	.2730	.0480	.0050	-.0400	-.0720
270.000		1.5710													

X/LT .7449 .8526 .9290

PHI

.000	.0090	.0110	-.0030
30.000	-.0090	-.0030	-.0130
60.000	-.0240	-.0070	.0280
90.000			.0160
120.000	-.0230	.0350	.0280
135.000	-.0040	-.0020	-.0200
150.000	.0000	-.0830	-.0330
165.000		-.0860	-.1100
180.000	-.0730		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT22) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORDINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.360

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4400	1.4780	.8180	.3820	.0610	-.0150	-.0840	-.0690	-.0410	.0650	.1300	.0330	.0060	-.0090	.0780
30.000			.9270	.4760	.1270	.0510	-.0350	-.0070	.0150	.2380	.0370	-.0380	.0270	.0610	.0750
60.000			.9360	.4750	.1260	.0570	-.0300	-.0070	.3730	.3950	-.0910	-.0490	.0200	.0740	.1050
90.000		1.4820	.8360	.3800	.0560	.0000	-.0870	-.0770	.5840	-.0720	-.3650	-.2610	-.0670	.0780	.1560
120.000			.6650	.2450	-.0500	-.1050	-.1700	-.1600	.0740	-.1330	-.3140	-.1940	.0280	.1090	.1110
135.000								-.2050		-.1220		-.1960		.1190	
150.000			.5000	.1230	-.1440	-.1880	-.2450	-.2390	-.1300	-.0230	.0380	.0240	-.0580	.0570	.0670
165.000			.0700	-.1740	-.2140	-.2690	-.2540	-.0850	.1220	.1510			-.0510		.0220
180.000	1.4400	1.1390	.3990	.0370	-.1940	-.2290	-.2800	-.2620	-.0140	.1270	.0790	-.0410	-.0050	-.1520	-.1140
270.000		1.1180													

X/LT .7449 .8526 .9290

PHI

.000	-.0030	.0450	.0560
30.000	.0570	.0430	.1100
60.000	.0770	.0970	.1050
90.000			-.1140
120.000	.1450	.4110	.3010
135.000	.1450	.4240	.2960
150.000	.1400	.4240	.2870
165.000		.3990	.2070
180.000	.0590		

MACH (1) = 1.555

BETAT (2) = -6.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4610	1.4980	.8270	.3830	.0570	-.0140	-.0860	-.0710	-.0360	.0710	.1670	.0640	.0100	-.0100	.0960
30.000			.9030	.4440	.0990	.0250	-.0540	-.0320	-.0110	.2040	.0700	.0010	.0270	.0530	.0700
60.000			.8810	.4210	.0870	.0210	-.0620	-.0430	.3320	.4050	-.0850	-.0640	.0270	.0670	.0850
90.000		1.4550	.7750	.3280	.0120	.0000	-.1180	-.1150	.5500	-.0760	-.3490	-.2580	-.0800	.0700	.1170
120.000			.6230	.2070	-.0810	-.1280	-.1930	-.1840	.0550	-.1370	-.3190	-.2060	-.0520	.0990	.0740
135.000								-.2160		-.1100		-.1580		.0900	
150.000			.4950	.1060	-.1540	-.1900	-.2470	-.2420	-.1200	.0230	.0010	-.0030	-.0340	.0180	.0270

PAGE 2053

(RBDY22)

STAT (2) = -6.310

DEPENDENT VARIABLE CP

279,555

180.000

ETAT (3) = -4.230

DEPENDENT VARIABLE CP

270.555

50.000

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT22)

MACH (1) = 1.555

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3630 .1410

180.000 .0360

MACH (1) = 1.555

BETAT (4) = -.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.4970 1.5190 .8420 .3940 .0700 -.0030 -.0780 -.0610 -.0330 .0220 .2240 .1030 .0160 -.0080 .0520

30.000 .8070 .3650 .0430 -.0260 -.0970 -.0770 -.0520 .1930 .0580 .0600 .0170 .0030 .0170

60.000 .7130 .2840 -.0130 -.0680 -.1400 -.1260 .2310 .4800 -.0510 -.0510 .0200 .0440 .0210

90.000 1.3430 .6050 .1910 -.0850 .0000 -.1960 -.1850 .4560 -.0870 -.3560 -.2980 -.0640 .0310 .0190

120.000 .5090 .1130 -.1370 -.1800 -.2340 -.2190 .0230 -.0820 -.2360 -.2560 .0280 .0560 -.0370

135.000 .2270 .0490 -.1240 .0200

150.000 .4500 .0730 -.1650 -.2010 -.2480 -.2310 .0250 .0720 .1370 -.0420 -.1080 -.0530 .1080

165.000 .0600 -.1680 -.2020 -.2530 -.2350 .0140 .1110 .1730 -.0640 .1500

180.000 1.4970 1.1810 .4310 .0550 -.1720 -.2050 -.2570 -.2370 .0190 .0950 .2630 .1460 -.0610 -.1600 .1870

270.000 1.3540

X/LT .7449 .8526 .9290

PHI

.000 .0270 .0370 .0300

30.000 .0180 .0260 .0590

60.000 .0530 .0520 .0650

90.000 -.0170

120.000 .0690 .2570 .1570

135.000 .0680 .2570 .1580

150.000 .0760 .2440 .1840

165.000 .1550 .0800

180.000 .0740

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBT22)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4890	1.5150	.8440	.4080	.0720	.0010	-.0700	-.0580	-.0310	.0190	.2210	.0990	.0150	-.0130	.0710
30.000			.7390	.3160	.0070	-.0610	-.1240	-.1140	-.0800	.1700	.1520	.0480	-.0190	-.0120	.0050
60.000			.6060	.2020	-.0760	-.1240	-.1910	-.1820	.1570	.5230	.0040	.0020	.0420	.0290	-.0120
90.000		1.2500	.5020	.1170	-.1430	.0000	-.2390	-.2230	.3690	-.0910	-.3340	-.2680	-.1260	-.0750	-.0370
120.000			.4310	.0640	-.1710	-.2050	-.2550	-.2390	.0480	-.0110	-.1260	-.2000	.0150	.0090	-.0260
135.000								-.2420		.0670		-.0810		-.0120	
150.000			.4150	.0470	-.1740	-.2070	-.2580	-.2390	.0330	.0920	.0920	-.0110	-.1630	-.1050	.1050
165.000				.0440	-.1750	-.2030	-.2560	-.2400	.0180	.1540	.1060		-.0940		.1340
180.000	1.4890	1.1760	.4280	.0470	-.1770	-.2050	-.2550	-.2390	.0140	.1700	.1140	.1300	-.0080	-.1780	.1640
270.000		1.4310													

X/LT .7449 .8526 .9290

PHI															
.000	.0300	.0240	.0290												
30.000	-.0080	.0160	.0330												
60.000	.0100	.0310	.0440												
90.000			.0120												
120.000	.0510	.0980	.1140												
135.000	.0500	.0360	.1080												
150.000	.0360	-.0510	.0310												
165.000		-.0790	-.0850												
180.000	.0560														

MACH (1) = 1.555

BETAT (6) = 6.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4740	1.5020	.8400	.4040	.0680	-.0050	-.0730	-.0590	-.0340	.0690	.1560	.0750	.0160	-.0080	.0770
30.000			.7060	.2820	-.0220	-.0870	-.1440	-.1330	-.0930	.1490	.1520	.0390	-.0240	-.0070	-.0160
60.000			.5610	.1510	-.1040	-.1520	-.2150	-.2020	.0610	.3810	.0300	.0240	.0450	.0050	-.0320
90.000		1.1980	.4590	.0710	-.1610	.0000	-.2590	-.2470	.3590	-.1060	-.3220	-.2330	-.1420	-.1350	-.0490
120.000			.4000	.0370	-.1840	-.2180	-.2650	-.2450	.0140	.0020	-.0830	-.1540	.0080	-.0190	.0010
135.000								-.2450		.0640		-.0980		-.0370	
150.000			.3920	.0350	-.1860	-.2200	-.2660	-.2450	.0270	.1280	.0700	-.0280	-.1810	-.1110	.0620
165.000				.0420	-.1870	-.2180	-.2660	-.2470	.0180	.1740	.0760		-.1100		.0660
180.000	1.4740	1.1610	.4250	.0530	-.1860	-.2180	-.2630	-.2420	.0310	.1500	.1780	.0590	-.0420	-.1670	-.0480
270.000		1.4630													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT22)

MACH (1) = 1.555

BETAT (6) = 6.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0140	.0050	.0210
30.000	-.0300	.0140	.0820
60.000	.0030	.0880	.0810
90.000		.0450	
120.000	.0760	.1080	.0710
135.000	.0830	.0570	.0360
150.000	.0740	-.1050	-.0310
165.000		-.1110	-.1080
180.000	.0310		

MACH (1) = 1.555

BETAT (7) = 6.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4520	1.4740	.8190	.4000	.0630	-.0110	-.0800	-.0670	-.0410	.0870	.0940	.0420	.0160	-.0010	.0790
30.000			.6550	.2490	-.0590	-.1140	-.1680	-.1550	-.1160	.1690	.1370	.0230	-.0220	-.0200	-.0320
60.000			.4990	.1130	-.1340	-.1800	-.2390	-.2050	.0390	.3260	.0860	.0510	.0290	-.0240	-.0200
90.000		1.1400	.4100	.0420	-.1860	.0000	-.2700	-.2550	.3510	-.1150	-.3130	-.2070	-.1530	-.1790	.0490
120.000			.3630	.0060	-.1980	-.2290	-.2710	-.2470	.0070	.0150	-.0350	-.1430	-.0240	.0030	.0570
135.000								-.2470		.0760		-.1100		-.0450	
150.000			.3680	.0170	-.1940	-.2280	-.2730	-.2430	.0210	.1680	.1260	-.0520	-.2180	-.1260	.0800
165.000				.0210	-.1960	-.2300	-.2630	-.2400	.0010	.1520	.0810		-.1720		.0840
180.000	1.4520	1.1480	.4070	.0370	-.1850	-.2220	-.2550	-.2340	-.0250	.1320	.0920	-.0220	-.1090	-.1580	-.1280
270.000		1.4810													

X/LT .7449 .8526 .9290

PHI

.000	-.0050	.0530	.0540
30.000	.0600	.0390	.0260
60.000	.0580	.0490	.0410
90.000		.0260	
120.000	.0390	.0280	.0370
135.000	.0490	-.0450	-.0170
150.000	.0850	-.1900	-.1040
165.000		-.1540	-.1260
180.000	.0680		

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RROT22)

MACH (2) = 2.000

BETAT (1) = -8.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5850	1.5860	.8280	.4080	.1150	.0510	-.0060	-.0020	.0020	.0110	.1110	.0940	.0550	.0270	.0840
30.000			.9370	.4890	.1710	.1020	.0390	.0500	.0590	.2430	.1640	.0580	.0420	.0740	.0720
60.000			.9350	.4890	.1700	.1150	.0410	.0480	.0870	.5890	.0540	.0280	.0520	.0760	.1070
90.000	1.5780		.8320	.3990	.1080	.0000	-.0050	.0070	.4060	.1880	-.1800	-.1650	-.1240	.0620	.0690
120.000			.6610	.2790	.0170	-.0210	-.0740	-.0620	.0390	.0500	-.2610	-.2260	-.0970	.0740	.0600
135.000								-.1060		.0190		-.1160		.0980	
150.000			.5030	.1600	-.0640	-.0930	-.1350	-.1250	-.1040	-.0280	-.0420	.1180	.0320	.0390	.1090
165.000				.1110	-.0930	-.1170	-.1330	-.1170	-.0800	.0480	.3630		-.0370		.0700
180.000	1.5850	1.2470	.4020	.0800	-.1080	-.1310	-.1250	-.1200	-.0570	.0420	.2050	-.0490	-.0160	-.0950	-.0520
270.000		1.2450													

X/LT .7449 .8526 .9290

PHI

.000	.0280	.0330	.0190
30.000	.0710	.0730	.0830
60.000	.0870	.0870	.1320
90.000			.0550
120.000	.1350	.3340	.3300
135.000	.1350	.3560	.3140
150.000	.1290	.3060	.3240
165.000		.6120	.3220
180.000	-.0520		

MACH (2) = 2.000

BETAT (2) = -6.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6030	1.5980	.8370	.4150	.1130	.0490	-.0060	.0020	.0160	.0260	.1760	.1050	.0500	.0350	.0900
30.000			.9090	.4640	.1570	.0890	.0280	.0400	.0550	.2510	.1490	.0670	.0610	.0620	.0570
60.000			.8830	.4410	.1510	.0970	.0240	.0290	.0600	.6040	.0510	.0110	.0350	.0610	.0890
90.000	1.5520		.7740	.3500	.0860	.0000	-.0240	-.0150	.3930	.1830	-.1830	-.1730	-.1380	.0320	.0700
120.000			.6230	.2390	.0030	-.0350	-.0860	-.0750	.0320	.0290	-.2740	-.2410	-.1170	.0640	.0500
135.000								-.1070		.0030		-.1400		.0680	
150.000			.4920	.1440	-.0670	-.0960	-.1380	-.1290	-.1060	-.0140	.0370	.0610	.0010	.0230	.0710
165.000				.1060	-.0890	-.1150	-.1510	-.1340	-.0780	.0790	.2660		.0400		.0170
180.000	1.6030	1.2620	.4100	.0850	-.1030	-.1240	-.1610	-.1310	-.0570	.0630	.2780	.0120	-.0030	-.0660	-.0740
270.000		1.2920													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO222)

MACH (2) = 2.000

BETAT (2) = -6.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0390	.0390	.0360
30.000	.0700	.0730	.0730
60.000	.0700	.0730	.1190
90.000			.0660
120.000	.0990	.2740	.2650
135.000	.0960	.3100	.2420
150.000	.0940	.2550	.2390
165.000		.6180	.2470
180.000	-.0600		

MACH (2) = 2.000

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6180	1.6060	.8440	.4270	.1200	.0560	-.0010	.0080	.0250	.0360	.1630	.1370	.0770	.0390	.0900
30.000			.8760	.4510	.1500	.0850	.0260	.0380	.0460	.2530	.0790	.0900	.0600	.0560	.0590
60.000			.8260	.4090	.1280	.0810	.0100	.0150	.0270	.6180	.0510	-.0020	.0170	.0440	.0800
90.000		1.5140	.7240	.3290	.0640	.0000	-.0410	-.0380	.3630	.1770	-.1840	-.1820	-.1450	.0470	.0930
120.000			.5930	.2250	-.0070	-.0470	-.0990	-.0980	.0160	.0290	-.2660	-.2470	-.1190	.0660	.0470
135.000								-.1240		.0110		-.1430		.0630	
150.000			.4830	.1390	-.0650	-.0970	-.1410	-.1380	-.1080	.0220	.1300	.0330	.0170	-.0070	.0200
165.000				.1120	-.0800	-.1100	-.1520	-.1440	-.0990	.0960	.2340		.0280		-.0280
180.000	1.6180	1.2760	.4250	.0930	-.0940	-.1160	-.1590	-.1490	-.0870	.1270	.2990	.0920	.0270	-.0510	-.1030
270.000		1.3450													

X/LT .7449 .8526 .9290

PHI

.000	.0440	.0460	.0510
30.000	.0580	.0690	.0630
60.000	.0640	.0520	.1030
90.000			.0570
120.000	.0630	.2370	.2340
135.000	.0530	.2820	.2100
150.000	.0490	.2980	.1680
165.000		.5100	.1570
180.000	.0800		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 2059

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT22)

MACH (2) = 2.000

BETAT (4) = -.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6460	1.6290	.8650	.4490	.1280	.0660	.0140	.0170	.0250	.0540	.2000	.1550	.1030	.0570	.0740
30.000			.8400	.4090	.1070	.0440	-.0030	.0010	.0140	.1410	.0880	.0850	.0730	.0520	.0350
60.000			.7540	.3360	.0500	.0100	-.0470	-.0410	-.0290	.5060	.0680	.0000	.0190	.0390	.0800
90.000	1.4700		.6440	.2370	-.0090	.0000	-.0960	-.0890	.3030	.1560	-.1840	-.1760	-.1060	.1030	.0610
120.000			.5340	.1640	-.0590	-.0850	-.1310	-.1240	-.0190	.0240	-.2590	-.2450	-.0680	.0520	.0030
135.000								-.1360		.0130		-.0240		.0520	
150.000			.4700	.1230	-.0880	-.1080	-.1460	-.1390	-.1020	.1020	.2110	.0630	.0070	-.0910	-.0260
165.000				.1120	-.0930	-.1100	-.1480	-.1420	-.0060	.0650	.2470		.0390		-.0710
180.000	1.6460	1.3030	.4490	.1010	-.0940	-.1100	-.1490	-.1410	.0400	.0890	.2920	.0060	.0880	-.0130	-.1300
270.000		1.4430													

X/LT .7449 .8526 .9290

PHI

.000	.0420	.0470	.0470
30.000	.0470	.0500	.0370
60.000	.0360	.0300	.0800
90.000			.0620
120.000	.0180	.1350	.1530
135.000	.0020	.1870	.1070
150.000	.0850	.2070	.0500
165.000		.2050	-.0030
180.000	.1700		

MACH (2) = 2.000

BETAT (5) = 4.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6430	1.6260	.8620	.4310	.1180	.0560	.0030	.0070	.0200	.0370	.2080	.1420	.0720	.0450	.0740
30.000			.7600	.3420	.0600	-.0010	-.0440	-.0390	.0100	.1470	.0350	.0520	.0470	.0290	.0160
60.000			.6260	.2350	-.0120	-.0450	-.0950	-.0920	-.0150	.1900	.1110	.0200	.0390	.0410	.0510
90.000	1.3720		.5180	.1490	-.0670	.0000	-.1370	-.1280	.2030	.1420	-.1710	-.1630	-.1420	-.0050	-.0500
120.000			.4470	.1010	-.0970	-.1190	-.1570	-.1450	-.0230	.0630	-.2300	-.1450	-.0690	.0340	-.0280
135.000								-.1490		.0200		.0720		-.0750	
150.000			.4230	.0890	-.1060	-.1260	-.1590	-.1480	.0340	.0820	.1870	.0500	-.0170	-.1190	-.0780
165.000				.0830	-.1050	-.1240	-.1580	-.1480	.0300	.0790	.2270		.0270		-.1640
180.000	1.6430	1.2990	.4370	.0900	-.1010	-.1190	-.1580	-.1450	-.0560	.0840	.2570	.1210	.0510	-.0490	-.1020
270.000		1.5360													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(R50T22)

MACH (2) = 2.000

DETAT (5) = 4.000

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0400	.0440	.0460
30.000	.0200	.0360	.0230
60.000	.0130	.0160	.0440
90.000			.0470
120.000	.0360	.0790	.0680
135.000	.0460	.0480	.0190
150.000	.0600	.0010	-.0780
165.000		-.0060	-.0730
180.000	.0770		

MACH (2) = 2.000

DETAT (6) = 6.000

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5007 .5565 .6372

PHI

.000	1.6180	1.6010	.8460	.4210	.1200	.0530	-.0010	.0040	.0110	.0230	.1240	.1120	.0460	.0300	.0810
30.000			.7100	.3070	.0400	-.0170	-.0610	-.0570	-.0200	.1660	.0750	.0810	.0480	.0210	.0130
60.000			.5590	.1920	-.0380	-.0710	-.1180	-.1090	-.0410	.0270	.1280	.0430	.0510	.0550	.0330
90.000		1.3090	.4550	.1150	-.0900	.0000	-.1560	-.1510	.1480	.1410	-.1600	-.1000	-.1100	.0440	-.0250
120.000			.3950	.0780	-.1090	-.1320	-.1680	-.1600	-.0250	.0650	-.2130	-.0780	.0160	.0170	-.0810
135.000								-.1590		.0360		-.0220		-.0340	
150.000			.3880	.0710	-.1100	-.1300	-.1650	-.1580	.0070	.0850	.1860	.0340	-.0430	-.1260	-.0800
165.000				.0720	-.1080	-.1290	-.1650	-.1520	-.0450	.0770	.2030		-.0130		-.1650
180.000	1.6180	1.2770	.4180	.0860	-.1050	-.1250	-.1540	-.1360	-.0610	.0570	.2510	.0560	.0210	-.0510	-.0700
270.000		1.5640													

X/LT .7449 .8526 .9290

PHI

.000	.0330	.0360	.0250
30.000	.0050	.0210	.0080
60.000	-.0090	.0160	.0380
90.000			.0140
120.000	.0180	.0610	.0450
135.000	.0080	.0220	-.0130
150.000	.0170	-.0520	-.0370
165.000		-.0690	-.0980
180.000	-.0680		

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT22)

MACH (2) = 2.000

BETAT (7) = 8.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5860	1.5680	.8220	.4080	.1120	.0470	-.0050	-.0020	.0030	.0110	.0650	.0660	.0490	.0160	.0630
30.000			.6580	.2690	.0150	-.0430	-.0780	-.0780	-.0520	.1590	.1040	.0590	.0280	.0100	.0050
60.000			.4990	.1480	-.0720	-.0940	-.1400	-.1200	-.0610	-.0590	.1360	.0680	.0510	.0390	.0000
90.000	1.2400		.4040	.0740	-.1180	.0000	-.1740	-.1530	.1030	.1300	-.1570	-.1450	-.0750	-.0350	-.1300
120.000			.3580	.0470	-.1310	-.1450	-.1770	-.1680	.0040	.0470	-.1850	-.0110	.0380	-.0330	-.1110
135.000								-.1680		.0230		-.0360		-.0570	
150.000			.3630	.0490	-.1260	-.1410	-.1740	-.1560	-.0380	.0590	.1900	.0120	-.0760	-.1460	-.0960
165.000				.0550	-.1200	-.1380	-.1600	-.1480	-.0550	.0520	.1850		-.0560		-.1580
180.000	1.5860	1.2500	.4050	.0780	-.1110	-.1300	-.1540	-.1430	-.0690	.0300	.2390	-.0430	-.0270	-.1010	-.0520
270.000		1.5740													

X/LT	.7449	.8526	.9290
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PHI

.000	.0170	.0170	.0050
30.000	-.0120	-.0060	-.0150
60.000	-.0080	.0000	.0220
90.000			.0200
120.000	.0000	.0320	.1120
135.000	-.0290	-.0310	.0050
150.000	-.0240	-.0200	-.0770
165.000		-.0370	-.0980
180.000	-.0600		

AMES 97-757 IA9 O2A + S3 + T9 EXTERNAL TANK

(RDOT23) (23 MAY 73)

REFERENCE DATA				PARAMETRIC DATA			
SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES	ALPHAT =	-8.000	ORDBINC =	.000
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES	RUDDER =	15.000	ELEVON =	.000
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES	RUDFLR =	.000		
SCALE =	.0300 SCALE						
MACH (1) = 1.555				BETAT (1) = -8.400			

SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP													
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372	
PHI																
.000	1.4400	1.1500	.4070	.0580	-.1850	-.2340	-.2790	-.2590	-.2200	.0440	.0230	-.1340	-.1930	-.1360	-.0190	
30.000			.5110	.1280	-.1360	-.1930	-.2460	-.2300	-.1980	-.1290	-.3210	-.2820	-.1030	-.0980	-.1200	
60.000			.6680	.2530	-.0430	-.1000	-.1710	-.1580	.1210	-.1340	-.4280	-.2730	-.2080	-.1570	-.0030	
90.000		1.4780	.8340	.3870	.0620	.0000	-.0880	-.0740	.5980	-.1150	-.4000	-.1160	-.1450	-.1330	-.0540	
120.000			.9280	.4750	.1300	.0600	-.0270	-.0150	.3520	.3810	.0590	.2350	.2290	.2340	.0350	
135.000								-.0130		.3920		.1190		.1740		
150.000			.9190	.4710	.1250	.0550	-.0290	-.0210	.0120	.4780	.3020	.1290	.1920	.0900	.0860	
165.000				.4250	.0920	.0300	-.0530	-.0430	-.0130	.5740	.2700		.0700		.0800	
180.000	1.4400	1.4540	.8060	.3680	.0900	-.0110	-.0930	-.0790	-.0500	.5190	.0840	-.0300	-.0070	.0790	-.0250	
270.000		1.1120														

X/LT	.7449	.8526	.9290
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PHI			
.000	.0390	.0210	.0040
30.000	-.0470	-.0140	-.0040
60.000	-.0290	-.0830	-.0480
90.000			-.1820
120.000	.1300	.2410	.1280
135.000	.0690	.2960	.0970
150.000	.0320	.2810	.1090
165.000		.4770	.0380
180.000	-.1670		

MACH (1) =	1.555	BETAT (2) =	-6.360
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SECTION (1) EXTERNAL TANK			DEPENDENT VARIABLE CP													
X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372	
PHI																
.000	1.4700	1.1680	.4150	.0530	-.1860	-.2310	-.2710	-.2500	-.2000	.0550	.0340	-.1120	-.1950	-.1410	-.0320	
30.000			.4940	.1050	-.1520	-.2050	-.2540	-.2390	-.1530	-.1270	-.2950	-.2620	-.0970	-.0840	-.1020	
60.000			.6300	.2050	-.0770	-.1300	-.1960	-.1810	.0480	-.1470	-.4400	-.2990	-.2070	-.1390	-.0250	
90.000		1.4650	.7840	.3280	.0150	.0000	-.1230	-.1100	.5710	-.1140	-.3820	-.1300	-.1700	.0120	-.0700	
120.000			.8870	.4230	.0850	.0230	-.0590	-.0470	.3240	.4040	.0790	.1940	.1850	.1800	.0250	
135.000								-.0370		.4380		.1000		.1410		
150.000			.9090	.4460	.1050	.0390	-.0410	-.0350	.0200	.5610	.2720	.1130	.1680	.0900	.0930	

AMES 97-707 1A9 02A + 03 + T9 EXTERNAL TANK

(RDOT23)

MACH (1) = 1.555

BETAT (2) = -6.360

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.4190	.0840	.0260	-.0570	-.0470	-.0010	.6440	.2270		.0670		.0470
180.000	1.4700	1.4920	.8270	.3710	.0540	-.0040	-.0850	-.0730	-.0420	.6620	.0720	-.0010	-.0190	.1870	-.0130
270.000		1.1760													

X/LT	.7449	.8526	.9290
PHI			
.000	.0090	.0290	.0230
30.000	-.0900	-.0280	.0170
60.000	-.0250	-.0900	-.0540
90.000			-.1860
120.000	.0550	.1790	.0800
135.000	.0300	.2290	.0440
150.000	-.0180	.2160	.0100
165.000		.3830	-.0040
180.000	-.1770		

MACH (1) = 1.555

BETAT (3) = -4.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4880	1.1730	.4220	.0570	-.1840	-.2320	-.2720	-.2470	-.1920	.0660	.0290	-.0890	-.1960	-.1450	-.0150
30.000			.4800	.0910	-.1600	-.2120	-.2510	-.2380	-.1190	-.1120	-.2430	-.2440	-.0910	-.0740	-.0910
60.000			.5860	.1640	-.0960	-.1430	-.2110	-.1970	.0300	-.1470	-.4590	-.3180	-.1420	-.1120	-.0430
90.000		1.4360	.7160	.2710	-.0180	.0000	-.1510	-.1380	.5430	-.1130	-.3780	-.1410	-.1820	.0300	-.2080
120.000			.8270	.3710	.0420	-.0090	-.0830	-.0770	.1865	.4360	.0930	.1520	.1390	.1490	.0210
135.000								-.0570		.5440		.0980		.1190	
150.000			.8800	.4210	.0840	.0190	-.0660	-.0460	.0180	.5770	.2520	.0990	.1690	.1580	.0470
165.000				.4100	.0750	.0170	-.0650	-.0560	.0040	.6320	.1970		.1190		.0250
180.000	1.4880	1.5120	.8420	.3820	.0570	-.0010	-.0790	-.0710	-.0180	.6660	.0650	.0420	.0510	.1750	-.0300
270.000		1.2360													

X/LT	.7449	.8526	.9290
PHI			
.000	.0100	-.0140	-.0170
30.000	-.0550	-.0370	-.0220
60.000	-.0020	-.0450	-.0130
90.000			-.1030
120.000	-.0140	.1380	.0310
135.000	-.0320	.1740	-.0030
150.000	-.0560	.1790	-.0660

AMES 97-707 1A9 OCA + S3 + T9 EXTERNAL TANK

(RDOT23)

MACH (1) = 1.555

BETAT (3) = -4.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .2810 -.0590

180.000 -.1380

MACH (1) = 1.555

BETAT (4) = -.170

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5070 1.1860 .4300 .0660 -.1670 -.2170 -.2590 -.2370 -.1770 .0740 .0620 -.0770 -.1050 -.1310 -.0280

30.000 .4460 .0770 -.1610 -.2100 -.2570 -.2360 -.0880 -.0840 -.1260 -.1990 -.0840 -.1210 -.0700

60.000 .5100 .1170 -.1330 -.1790 -.2380 -.2200 -.0010 -.1270 -.4450 -.2600 -.2020 -.0030 -.0480

90.000 1.3590 .6100 .1930 -.0810 .0000 -.1990 -.1850 .4990 -.0950 -.3150 -.1540 -.2150 -.0020 -.2150

120.000 .7170 .2860 -.0140 -.0730 -.1410 -.1280 .2040 .5030 .1280 .0860 .0830 .1390 -.0340

135.000 .8180 .3700 .0450 -.0180 -.0930 -.0780 -.0500 .4150 .2190 .1090 .2010 .1040 -.0110

150.000 .3890 .0600 .0010 -.0780 -.0660 -.0360 .4150 .1520 .1560 .1560 .1560 .1560 .1560

165.000 1.5070 1.5330 .8560 .3890 .0660 .0050 -.0750 -.0600 -.0320 .4830 .0650 .1440 .0710 .1860 -.0370

180.000 1.3450

X/LT .7449 .8526 .9290

PHI

.000 .0340 -.0040 -.0070

30.000 .0030 -.0160 -.0080

60.000 -.0030 -.0170 .0080

90.000 -.0120

120.000 -.0930 .0650 -.0470

135.000 -.0950 .0960 -.0830

150.000 -.0880 .1220 -.1670

165.000 .1450 -.1900

180.000 -.0790

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RROT23)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5020	1.1830	.4330	.0680	-.1720	-.2150	-.2600	-.2400	-.1760	.0710	.0610	-.0940	-.2030	-.1420	-.0040
30.000			.4200	.0530	-.1720	-.2190	-.2660	-.2400	-.0500	-.0520	-.0230	-.1310	-.1240	-.1300	-.0620
60.000			.4380	.0690	-.1630	-.2060	-.2630	-.2400	-.0560	-.0810	-.4010	-.1550	-.2000	.0000	-.0520
90.000		1.2600	.5130	.1190	-.1340	.0000	-.2450	-.2280	.3530	-.0750	-.2010	-.1790	-.1920	-.0550	-.1050
120.000			.6120	.2050	-.0730	-.1300	-.1930	-.1800	.1800	.3850	.1620	.0830	.0570	.0990	-.0620
135.000								-.1520		.2890		.1280		.0550	
150.000			.7380	.3090	.0030	-.0560	-.1280	-.1170	.1490	.3470	.1280	.0610	.1070	.0620	-.0620
165.000				.3510	.0360	-.0220	-.0980	-.0860	-.0620	.3770	.0520		.0420		-.0760
180.000	1.5020	1.5210	.8440	.3790	.0620	.0030	-.0780	-.0620	-.0360	.4940	.0590	.0550	.0370	.1800	-.0260
270.000		1.4260													

X/LT .7449 .8526 .9290

PHI

.000	.0190	-.0160	-.0220
30.000	.0070	-.0150	.0110
60.000	-.0100	-.0220	-.0610
90.000			-.0190
120.000	-.1290	-.0130	-.1200
135.000	-.1300	-.0660	-.1900
150.000	-.1460	-.1270	-.2410
165.000		-.1480	-.2300
180.000	-.1280		

MACH (1) = 1.555

BETAT (6) = 8.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4710	1.1580	.4130	.0560	-.1800	-.2310	-.2760	-.2590	-.2180	.0660	.0280	-.1290	-.1770	-.1280	-.0190
30.000			.3690	.0180	-.1970	-.2440	-.2830	-.2530	-.0280	-.0220	-.0430	-.1280	-.1730	-.1540	-.0080
60.000			.3710	.0150	-.1990	-.2320	-.2760	-.2520	-.0520	-.0270	-.3380	-.1950	-.1130	-.0160	.0320
90.000		1.1520	.4070	.0340	-.1850	.0000	-.2750	-.2540	.3060	-.0850	-.0710	-.2270	-.0950	-.0420	-.0620
120.000			.4970	.1100	-.1370	-.1840	-.2440	-.2220	.1130	.3230	.1750	.0480	.0030	.0880	-.0900
135.000								-.1990		.4020		.0600		.0350	
150.000			.6490	.2380	-.0530	-.1050	-.1740	-.1600	-.0970	.3950	.0200	-.0400	.0130	.0710	-.1330
165.000				.3100	.0030	-.0610	-.1320	-.1190	-.0920	.5890	-.0420		-.0540		-.1320
180.000	1.4710	1.4910	.8110	.3690	.0500	-.0130	-.0900	-.0730	-.0460	.7390	.0820	-.0540	-.1190	.0870	-.0220
270.000		1.4840													

X/LT .7449 .8526 .9290

PHI

AMES 97-757 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT23)

MACH (1) = 1.555

BETAT (6) = 8.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

FHI

.000	.0380	.0190	.0090
30.000	.0230	-.0140	-.0280
60.000	.0350	-.0110	-.0070
90.000			-.0500
120.000	-.1090	-.0300	-.1640
135.000	-.1050	-.1450	-.2280
150.000	-.1990	-.1910	-.2180
165.000		-.2750	-.2500
180.000	-.1810		

MACH (2) = 2.000

BETAT (1) = -8.380

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

FHI

.000	1.5940	1.2640	.4010	.0870	-.1170	-.1550	-.1720	-.1690	-.1480	-.0490	.0740	-.0260	-.0980	-.1070	-.0480
30.000			.5000	.1480	-.0730	-.1200	-.1450	-.1380	-.1240	-.0220	-.1840	-.2360	-.1480	-.0780	-.1080
60.000			.6670	.2640	.0080	-.0270	-.0820	-.0790	.0450	.0340	-.2750	-.2370	-.1390	-.1090	-.0460
90.000		1.5860	.8290	.3930	.0980	.0000	-.0110	-.0070	.4130	.1430	-.2080	-.1830	-.0200	-.0400	-.0440
120.000			.9270	.4840	.1610	.1100	.0360	.0430	.0990	.5620	.0360	.1450	.2850	.2470	.1630
135.000								.0450		.2040		.1910		.2560	
150.000			.9300	.4800	.1630	.1130	.0390	.0410	.0590	.2420	.4900	.2480	.1770	.1970	.0920
165.000				.4410	.1360	.0920	.0210	.0240	.0330	.3420	.4160		.1030		.0810
180.000	1.5940	1.5750	.8230	.3880	.0980	.0590	-.0090	-.0050	-.0010	.2950	.2700	.1530	-.0020	-.0170	-.0180
270.000		1.2380													

X/LT .7449 .8526 .9290

FHI

.000	-.0450	-.0130	-.0100
30.000	-.1070	-.1010	-.0690
60.000	-.0350	-.0730	-.0500
90.000			.0180
120.000	.0770	.1990	.2330
135.000	.0770	.2850	.1180
150.000	.0930	.2920	.1300
165.000		.5730	.1250
180.000	.0020		

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT23)

MACH (2) = 2.000

BETAT (2) = -6.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6010	1.2640	.4060	.0950	-.1080	-.1460	-.1670	-.1610	-.1380	-.0210	.0640	-.0040	-.0860	-.1170	-.0520
30.000			.4830	.1340	-.0740	-.1180	-.1470	-.1400	-.1310	-.0740	-.1650	-.2250	-.1430	-.0650	-.0930
60.000			.6120	.2280	-.0080	-.0430	-.0970	-.0890	.0070	.0150	-.2770	-.2450	-.1330	-.2030	-.0190
90.000		1.5470	.7700	.3450	.0750	.0000	-.0360	-.0280	.3790	.1360	-.2030	-.1720	-.0460	-.0540	-.0630
120.000			.8740	.4290	.1320	.0870	.0180	.0190	.0470	.6060	.0460	.1250	.2440	.2150	.1290
135.000								.0310		.2320		.1510		.2210	
150.000			.9040	.4570	.1480	.0940	.0270	.0320	.0510	.2470	.4450	.2010	.1550	.1710	.0700
165.000				.4390	.1340	.0830	.0150	.0170	.0390	.3010	.4180		.0910		.1110
180.000	1.6010	1.5830	.8330	.4020	.1050	.0610	-.0060	-.0040	.0160	.3060	.2760	.1940	.0170	.0030	.0560
270.000		1.2820													

X/LT .7449 .8526 .9290

PHI

.000	-.0240	-.0070	-.0050
30.000	-.0960	-.0730	-.0320
60.000	-.0320	-.0530	-.0410
90.000			.0420
120.000	.0440	.1270	.1800
135.000	.0580	.2390	.0850
150.000	.0930	.2830	.0820
165.000		.4600	.0750
180.000	.0030		

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6220	1.2740	.4150	.1030	-.0970	-.1350	-.1620	-.1520	-.1200	.0310	.0760	.0130	-.0740	-.1240	-.0600
30.000			.4710	.1330	-.0710	-.1160	-.1460	-.1360	-.1210	-.0600	-.1410	-.2020	-.1290	-.0590	-.0730
60.000			.5740	.2080	-.0210	-.0570	-.1020	-.0960	-.0030	.0150	-.2790	-.2510	-.2020	-.1460	-.0050
90.000		1.5140	.7070	.3060	.0510	.0000	-.0490	-.0450	.3670	.1260	-.2050	-.1200	-.0500	-.0740	-.0720
120.000			.8120	.3990	.1100	.0620	-.0020	.0050	.0690	.5840	.0520	.1100	.2300	.1670	.1060
135.000								.0180		.1300		.1270		.2000	
150.000			.8730	.4450	.1420	.0890	.0180	.0230	.0760	.2670	.3750	.1620	.1440	.1670	.0890
165.000				.4340	.1360	.0870	.0170	.0190	.0630	.3280	.3880		.0850		.0890
180.000	1.6220	1.6050	.8450	.4100	.1190	.0690	.0020	.0080	.0420	.3170	.2640	.2540	.0530	.0770	.0660
270.000		1.3420													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBOT23)

MACH (2) = 2.000

BETAT (3) = -4.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0030	.0130	.0010
30.000	-.0600	-.0370	-.0170
60.000	-.0170	-.0380	-.0260
90.000			.0380
120.000	.0220	.0820	.1310
135.000	.0410	.1910	.0550
150.000	.0780	.2490	.0440
165.000		.3750	.0350
180.000	.0070		

MACH (2) = 2.000

BETAT (4) = -.170

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6320	1.2800	.4320	.1070	-.0950	-.1350	-.1570	-.1470	-.1130	-.0040	.0800	.0210	-.0690	-.1270	-.0640
30.000			.4490	.1090	-.0890	-.1320	-.1560	-.1450	-.1180	-.0050	-.0710	-.1180	-.1210	-.0540	-.0880
60.000			.5140	.1490	-.0670	-.0940	-.1350	-.1300	-.0570	.0130	-.2790	-.2640	-.2770	-.0960	-.0200
90.000		1.4430	.6100	.2200	-.0210	.0000	-.0990	-.0930	.3580	.1170	-.2020	-.0410	-.0770	-.1140	.0440
120.000			.7210	.3170	.0450	.0030	-.0520	-.0490	.0030	.5590	.1950	.0780	.1820	.1330	.0900
135.000							-.0270		.1790		.0910		.1650		
150.000			.8270	.3940	.1010	.0530	-.0140	-.0060	.0050	.3350	.3520	.1120	.0940	.1530	.0710
165.000				.4140	.1170	.0720	.0020	.0050	.0170	.3430	.3190		.1020		.0730
180.000	1.6320	1.6180	.8590	.4180	.1220	.0770	.0060	.0100	.0230	.3560	.2460	.2800	.1190	.0900	.0800
270.000		1.4290													

X/LT .7449 .8526 .9290

PHI

.000	.0000	.0230	.0110
30.000	-.0300	-.0070	-.0060
60.000	-.0100	-.0150	-.0050
90.000			.0260
120.000	.0010	.0230	.0400
135.000	.0170	.0860	-.0290
150.000	.0380	.1450	-.0630
165.000		.1910	-.0840
180.000	.0150		

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBDT23)

MACH (2) = 2.000

BETAT (5) = 3.930

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
FHI															
.000	1.6210	1.2690	.4230	.1020	-.1060	-.1430	-.1630	-.1530	-.1190	-.0330	.0870	.0120	-.0750	-.1240	-.0590
30.000			.4070	.0790	-.1090	-.1480	-.1640	-.1540	-.1190	.0200	-.0290	-.0390	-.0960	-.0900	-.1050
60.000			.4340	.0940	-.1000	-.1210	-.1560	-.1530	-.0600	.0280	-.2630	-.2380	-.2300	-.0900	.0180
90.000		1.3460	.4980	.1420	-.0720	.0000	-.1350	-.1330	.2810	.1290	-.1840	-.0020	-.1030	-.1080	-.0510
120.000			.6030	.2200	-.0170	-.0500	-.1000	-.0930	.0280	.1610	.2790	.0720	.1400	.0890	.0380
135.000								-.0700		.2460		.0180		.1060	
150.000			.7410	.3270	.0490	.0100	-.0450	-.0420	.0040	.2960	.2770	.1070	.0870	.0890	.0260
165.000				.3720	.0790	.0390	-.0220	-.0170	.0180	.2770	.2420		.0840		.0360
180.000	1.6210	1.6100	.8450	.4090	.1050	.0620	-.0040	.0050	.0370	.2900	.2610	.2690	.0710	.0790	.0800
270.000		1.5060													

X/LT .7449 .8526 .9290

FHI															
.000	-.0040	-.0030	-.0150												
30.000	-.0210	-.0030	-.0060												
60.000	-.0210	-.0240	-.0110												
90.000			-.0280												
120.000	-.0360	-.0090	-.0130												
135.000	-.0190	-.0050	-.0830												
150.000	-.0150	-.0420	-.1690												
165.000		-.0230	-.2160												
180.000	.0030														

MACH (2) = 2.000

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
FHI															
.000	1.6120	1.2590	.4170	.1040	-.1070	-.1450	-.1620	-.1550	-.1240	-.0590	.0810	-.0030	-.0850	-.1180	-.0550
30.000			.3900	.0680	-.1130	-.1520	-.1670	-.1550	-.1190	.0190	-.0640	-.0230	-.0910	-.1100	-.1080
60.000			.4040	.0750	-.1080	-.1250	-.1640	-.1550	-.0370	.0340	-.2470	-.2090	-.2070	-.0920	-.0100
90.000		1.2980	.4530	.1160	-.0920	.0000	-.1500	-.1440	.1990	.1340	-.1740	.0050	-.1160	-.1010	-.0550
120.000			.5540	.1880	-.0400	-.0650	-.1110	-.1090	.0430	.0340	.2950	.1450	.1100	.0820	.0100
135.000								-.0820		.1960		-.0030		.0710	
150.000			.7020	.2980	.0400	.0010	-.0600	-.0530	-.0450	.3120	.2380	.1330	.0500	.0570	.0080
165.000				.3500	.0740	.0370	-.0270	-.0240	-.0050	.3130	.2070		.0270		.0170
180.000	1.6120	1.5970	.8380	.4010	.1060	.0670	-.0010	.0050	.0280	.3070	.2590	.2080	.0310	.0400	.0620
270.000		1.5420													

X/LT .7449 .8526 .9290

FHI

AMES 97-757 IA9 02A + S3 + T9 EXTERNAL TANK

(RBO723)

MACH (2) = 2.000

BETAT (6) = 5.985

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0330	-.0180	-.0260
30.000	-.0180	-.0080	-.0160
60.000	-.0380	-.0290	-.0170
90.000			-.0390
120.000	-.0490	-.0200	-.0460
135.000	-.0340	-.0310	-.1190
150.000	-.0460	-.1180	-.1980
165.000		-.1440	-.2160
180.000	.0040		

MACH (2) = 2.000

BETAT (7) = 8.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5980	1.2500	.4080	.1000	-.1130	-.1490	-.1650	-.1600	-.1350	-.0680	.0350	-.0360	-.0990	-.1080	-.0540
30.000			.3640	.0540	-.1270	-.1620	-.1730	-.1610	-.1250	.0160	-.0760	-.0510	-.1080	-.1370	-.0970
60.000			.3680	.0530	-.1270	-.1390	-.1730	-.1610	-.0180	.0500	-.2780	-.1730	-.1900	-.1000	-.0430
90.000		1.2550	.4140	.0780	-.1140	.0000	-.1680	-.1670	.1440	.1340	-.1530	-.0000	-.1390	-.0860	-.0130
120.000			.5050	.1510	-.0710	-.0920	-.1360	-.1140	-.0300	-.0140	.2270	.0820	.0720	.0450	-.0030
135.000								-.1100		.2190		.0620		.0460	
150.000			.6640	.2730	.0150	-.0210	-.0760	-.0770	-.0280	.2580	.1760	.0940	.0210	.0250	-.0120
165.000				.3340	.0630	.0240	-.0370	-.0380	-.0240	.2820	.1560		-.0680		.0050
180.000	1.5980	1.5870	.8290	.3930	.1060	.0640	-.0020	-.0020	.0080	.3420	.2660	.1480	-.0060	-.0150	-.0200
270.000		1.5670													

X/LT .7449 .8526 .9290

PHI

.000	-.0550	-.0360	-.0340
30.000	-.0240	-.0250	-.0280
60.000	-.0430	-.0320	-.0090
90.000			-.0370
120.000	-.0590	-.0240	-.0990
135.000	-.0590	-.0800	-.1550
150.000	-.0980	-.2110	-.2160
165.000		-.1920	-.2380
180.000	.0020		

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RBOT24) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4810	1.2640	.5090	.1270	-.1330	-.1880	-.2360	-.2190	-.1910	.0810	.0790	-.0900	-.1680	-.1350	-.0470
30.000			.6150	.2060	-.0770	-.1360	-.1910	-.1730	-.1440	-.0030	-.2260	-.2430	-.0770	-.0650	-.0870
60.000			.7470	.3100	-.0020	-.0550	-.1270	-.1120	.2100	.0360	-.3760	-.2200	-.0790	-.0580	-.0030
90.000		1.5120	.8500	.3910	.0650	.0000	-.0770	-.0590	.6380	-.0930	-.4500	-.1350	-.1590	-.1950	-.1850
120.000			.8720	.4210	.0850	.0250	-.0590	-.0510	.2980	.2820	-.1390	.0080	.2220	.2160	.0510
135.000								-.0620		.2820		.0630		.1870	
150.000			.8190	.3750	.0480	-.0110	-.0860	-.0780	-.0450	.3220	.2770	.0800	.0230	.0970	.0520
165.000				.3280	.0130	-.0410	-.1120	-.1030	-.0750	.4340	.2680		-.0710		-.0170
180.000	1.4810	1.4110	.7020	.2740	-.0250	-.0740	-.1450	-.1330	-.1080	.3590	.1090	-.0420	-.1590	-.1170	.0210
270.000		1.1510													

X/LT .7449 .8526 .9290

PHI

.000	.0430	.0240	.0040
30.000	-.0340	-.0110	.0210
60.000	-.0060	.0070	.0530
90.000		-.1220	
120.000	.0800	.2610	.1650
135.000	.0600	.3120	.1450
150.000	.0380	.2890	.1430
165.000		.4760	.0630
180.000	-.1490		

MACH (1) = 1.555

BETAT (2) = -6.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5110	1.2850	.5180	.1240	-.1360	-.1890	-.2350	-.2140	-.1790	.0980	.0810	-.0650	-.1600	-.1460	-.0250
30.000			.6020	.1850	-.0910	-.1510	-.2060	-.1870	-.1560	-.0010	-.1990	-.2090	-.0850	-.0560	-.0810
60.000			.7090	.2690	-.0320	-.0870	-.1590	-.1410	.1540	.0310	-.3830	-.2340	-.0830	-.0390	-.0120
90.000		1.4960	.8030	.3460	.0260	.0000	-.1120	-.0960	.6190	-.1000	-.4530	-.1420	-.1800	-.2190	-.1620
120.000			.8360	.3770	.0540	-.0110	-.0880	-.0820	.2420	.2880	-.0770	-.0360	.1760	.1910	.0330
135.000								-.0880		.3060		.0130		.1610	
150.000			.8060	.3590	.0360	-.0260	-.1030	-.0950	-.0630	.3400	.2750	.0690	-.0040	.0780	.0420

PAGE 2072

(RBOY24)

BETAT (2) = -6.295

DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
------	-------	-------	-------

PHI			
.000	-.0120	.0350	.0210
30.000	-.0470	-.0370	.0170
60.000	-.0150	-.0200	.0240
90.000			-.0740
120.000	.0410	.1940	.1130
135.000	.0230	.2350	.0840
150.000	-.0100	.2180	.0730
165.000		.4190	.0200
180.000	-.1510		

$$\text{BETAT} (3) = -4.240$$

DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
------	-------	-------	-------

PRI			
.000	.0020	-.0010	-.0100
30.000	-.0250	-.0250	-.0100
60.000	-.0150	-.0120	.0150
90.000			-.0030
120.000	-.0090	.1400	.0720
135.000	-.0280	.1760	.0340
150.000	-.0340	.1910	-.0170

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK...

(R00T24)

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3050 -.0330

180.000 -.1200

MACH (1) = 1.555

BETAT (4) = -.150

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5490	1.3110	.5340	.1330	-.1220	-.1760	-.2230	-.2010	-.1580	.0930	.1040	-.0380	-.1470	-.1870	-.0130
30.000			.5490	.1380	-.1180	-.1710	-.2190	-.1950	-.1540	-.0220	-.0410	-.1320	-.1660	-.0770	-.0570
60.000			.5870	.1700	-.1010	-.1470	-.2070	-.1860	.0770	.0720	-.3490	-.2160	-.0730	.0080	-.0320
90.000		1.3930	.6380	.2090	-.0750	.0000	-.1870	-.1720	.4460	-.0610	-.4170	-.1940	-.2810	-.0520	-.2290
120.000			.6850	.2500	-.0420	-.0910	-.1590	-.1480	.1810	.3930	.0190	-.0070	.0640	.0860	-.0450
135.000								-.1400		.2140		-.0730		.0260	
150.000			.7290	.2900	-.0170	-.0690	-.1380	-.1300	-.0910	.3460	.1530	.0640	.0430	.0100	-.0190
165.000				.2930	-.0100	-.0610	-.1340	-.1250	-.0860	.3340	.1680		-.0040		-.0110
180.000	1.5490	1.4840	.7460	.2930	-.0090	-.0600	-.1340	-.1230	-.0660	.3030	.1120	.1480	-.0070	-.0030	.0010
270.000		1.3940													

X/LT .7449 .8526 .9290

PHI

.000	.0240	.0110	-.0010
30.000	.0080	-.0040	.0070
60.000	-.0340	-.0150	.0230
90.000			.0130
120.000	-.0590	.0630	-.0070
135.000	-.0790	.0940	-.0530
150.000	-.0790	.1120	-.1350
165.000		.1240	-.1790
180.000	-.0470		

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA92

PAGE 2074

AMES 97-707 (A9 02A + S3 + T9 EXTERNAL TANK

(RDOT24)

MACH (1) = 1.555

BETAT (5) = 3.940

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5340	1.2990	.5370	.1400	-.1240	-.1820	-.2300	-.2090	-.1620	.1050	.0950	-.0540	-.1580	-.1740	-.0030
30.000			.5100	.1080	-.1370	-.1890	-.2340	-.2110	-.0850	-.0170	.0000	-.0710	-.1740	-.1060	-.0510
60.000			.5030	.1070	-.1360	-.1770	-.2360	-.2120	.0180	.1040	-.3180	-.1750	-.0330	-.0180	-.0450
90.000		1.2030	.5380	.1320	-.1250	.0000	-.2280	-.2110	.3790	-.0610	-.4060	-.1940	-.2650	.0260	-.1620
120.000			.5830	.1750	-.0930	-.1400	-.2020	-.1910	.1490	.3970	.0770	.0610	.0080	.0190	-.0660
135.000							-.1760		.1740		.0050		-.0070		
150.000			.6600	.2390	-.0480	-.0970	-.1660	-.1570	.1360	.2810	.1410	.0210	-.0430	-.0180	-.0510
165.000				.2630	-.0270	-.0780	-.1490	-.1390	-.1020	.3090	.0640		-.0600		-.0480
180.000	1.5340	1.4680	.7400	.2880	-.0080	-.0600	-.1360	-.1220	-.0900	.4610	.0710	.0420	-.0370	-.0370	-.0080
270.000		1.4690													

X/LT .7449 .8526 .9290

PHI

.000	.0100	.0020	-.0140
30.000	.0090	.0020	-.0030
60.000	.0030	-.0190	.0380
90.000		-.0150	
120.000	-.1090	-.0040	-.0960
135.000	-.1180	-.0620	-.1680
150.000	-.1400	-.1370	-.1710
165.000		-.1640	-.1850
180.000	-.1110		

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5140	1.2830	.5370	.1410	-.1250	-.1790	-.2300	-.2160	-.1720	.1000	.0910	-.0690	-.1570	-.1510	-.0210
30.000			.4860	.0970	-.1550	-.2030	-.2450	-.2210	-.0850	.0070	-.0520	-.0630	-.1750	-.1350	-.0710
60.000			.4720	.0800	-.1590	-.1970	-.2450	-.2220	.0150	.1280	-.2930	-.1110	-.0250	-.0330	-.0570
90.000		1.2330	.4970	.0890	-.1460	.0000	-.2430	-.2290	.3660	-.0600	-.3670	-.1960	-.2080	.0030	-.1400
120.000			.5410	.1320	-.1190	-.1620	-.2220	-.2090	.1180	.4330	.0950	.0580	-.0220	-.0120	-.0870
135.000							-.1930		.1430		-.0030		-.0340		
150.000			.6270	.2090	-.0760	-.1260	-.1860	-.1720	-.0500	.4050	.1020	-.0220	-.0480	-.0260	-.0720
165.000				.2500	-.0450	-.0980	-.1600	-.1500	-.0810	.4440	.0250		-.0940		-.0630
180.000	1.5140	1.4480	.7270	.2870	-.0150	-.0700	-.1360	-.1250	-.0720	.5490	.0810	-.0070	-.0880	-.0730	.0020
270.000		1.4890													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT24)

MACH (1) = 1.555

BETAT (6) = 5.980

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7440 .8526 .9290

PHI

.000	.0010	.0310	.0170
30.000	-.0070	.0370	.0330
60.000	.0500	.0300	.0390
90.000		.0010	
120.000	-.1390	.0340	-.0330
135.000	-.1380	-.0440	-.1180
150.000	-.1790	-.1820	-.1950
165.000		-.1440	-.1920
180.000	-.1580		

MACH (1) = 1.555

BETAT (7) = 8.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4990	1.2580	.5190	.1300	-.1310	-.1870	-.2330	-.2180	-.1920	.0870	.0740	-.0920	-.1590	-.1320	-.0600
30.000			.4430	.0680	-.1720	-.2170	-.2560	-.2350	-.0730	.0340	-.0850	-.1040	-.1890	-.1630	-.0350
60.000			.4180	.0430	-.1790	-.2100	-.2550	-.2340	.0040	.1530	-.2610	-.0720	-.0480	-.0240	.0120
90.000		1.1790	.4360	.0500	-.1700	.0000	-.2590	-.2410	.3330	-.0560	-.2710	-.2100	-.1330	-.0190	-.0420
120.000			.4790	.0990	-.1500	-.1880	-.2430	-.2330	.1110	.3570	.0920	.0180	-.0460	-.0330	-.0580
135.000								-.2040		.2200		.0070		-.0520	
150.000			.5800	.1810	-.0990	-.1480	-.2060	-.1830	-.0200	.3310	.0530	-.0660	-.0710	-.0510	-.1050
165.000				.2290	-.0600	-.1120	-.1740	-.1580	-.0940	.4230	-.0300		-.1710		-.0950
180.000	1.4990	1.4410	.7140	.2780	-.0240	-.0760	-.1390	-.1250	-.0950	.6280	.0910	-.0610	-.1740	-.1000	.0140
270.000		1.5150													

X/LT .7449 .8526 .9290

PHI

.000	.0430	.0270	.0060
30.000	.0250	.0060	-.0100
60.000	.0580	.0050	-.0040
90.000			-.0330
120.000	-.1080	-.0120	-.1140
135.000	-.1090	-.1300	-.2030
150.000	-.1440	-.1570	-.1920
165.000		-.2520	-.2300
180.000	-.1680		

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT24)

MACH (2) = 2.000

BETAT (1) = -8.310

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6250	1.3660	.5020	.1560	-.0700	-.1130	-.1430	-.1380	-.1260	-.1000	.0920	.0210	-.0700	-.1020	-.0450
30.000			.6100	.2230	-.0170	-.0700	-.1060	-.0970	-.0990	.0030	-.1000	-.1760	-.1420	-.0430	-.0730
60.000			.7420	.3240	.0480	.0060	-.0540	-.0480	-.0280	.1800	-.2090	-.2100	-.0520	-.0120	-.0650
90.000		1.6100	.8420	.4070	.1050	.0000	-.0090	-.0070	.3800	.1580	-.2430	-.2390	-.0420	-.0430	-.0590
120.000			.8730	.4260	.1280	.0770	.0070	.0070	.0570	.4470	-.0530	.0300	.1030	.2250	.1410
135.000								-.0020		.3740		.1360		.1570	
150.000			.8230	.3910	.1000	.0550	-.0130	-.0140	.0160	.1180	.4930	.2040	.1300	.0890	.0780
165.000				.3470	.0690	.0290	-.0330	-.0360	-.0190	.1940	.4780		.0760		.0040
180.000	1.6250	1.5170	.7100	.2970	.0360	.0020	-.0600	-.0600	-.0490	.2310	.2730	.1430	-.0090	-.0460	-.0810
270.000		1.2650													

X/LT .7449 .8526 .9290

PHI

.000	-.0620	-.0270	-.0160
30.000	-.0660	-.0800	-.0510
60.000	.0100	.0090	.0460
90.000			.0160
120.000	.0840	.1990	.2590
135.000	.0830	.2830	.1410
150.000	.0860	.2630	.1580
165.000		.5460	.1430
180.000	-.0430		

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6380	1.3710	.5050	.1580	-.0710	-.1120	-.1370	-.1320	-.1140	-.0870	.1050	.0310	-.0600	-.0930	-.0400
30.000			.5900	.2050	-.0310	-.0810	-.1120	-.1000	-.0860	.0200	-.0770	-.1590	-.1260	-.0450	-.0620
60.000			.6990	.2780	.0230	-.0130	-.0690	-.0640	-.0320	.1800	-.2110	-.2170	-.0770	-.0260	-.0390
90.000		1.5770	.7870	.3500	.0700	.0000	-.0290	-.0270	.3630	.1530	-.2410	-.2410	-.0060	-.0650	-.0780
120.000			.8250	.3850	.0910	.0540	-.0070	-.0080	.0440	.4520	-.0500	.0240	.0600	.1850	.1150
135.000								-.0100		.1760		.1010		.1370	
150.000			.7980	.3750	.0830	.0380	-.0240	-.0180	-.0040	.1930	.4430	.1630	.1230	.0600	.0590
165.000				.3440	.0620	.0230	-.0390	-.0370	-.0190	.2700	.4060		.0770		.0310
180.000	1.6380	1.5280	.7140	.3090	.0340	.0010	-.0560	-.0560	-.0380	.2460	.2890	.1880	.0170	-.0030	-.0440
270.000		1.3110													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT24)

MACH (2) = 2.000

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0390	-.0010	.0020
30.000	-.0480	-.0550	-.0290
60.000	.0010	.0160	.0410
90.000			.0700
120.000	.0550	.1380	.2270
135.000	.0560	.2350	.1100
150.000	.0700	.2520	.1080
165.000		.4960	.0950
180.000	-.0190		

MACH (2) = 2.000

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6510	1.3780	.5160	.1620	-.0590	-.1020	-.1370	-.1280	-.1060	-.0750	.1150	.0240	-.0450	-.0940	-.0520
30.000			.5740	.1950	-.0280	-.0770	-.1160	-.1070	-.0880	.0260	-.0580	-.1430	-.1130	-.0510	-.0570
60.000			.6510	.2600	.0090	-.0310	-.0870	-.0730	-.0290	.1670	-.2190	-.2310	-.0870	-.0460	-.0190
90.000		1.5380	.7280	.3170	.0500	.0000	-.0520	-.0420	.3380	.1450	-.2500	-.2480	-.0970	-.0930	-.0970
120.000			.7720	.3560	.0770	.0280	-.0320	-.0230	-.0040	.4740	-.0530	.0240	.0280	.1450	.0870
135.000								-.0260		.1030		.0840		.1160	
150.000			.7730	.3550	.0770	.0320	-.0340	-.0290	-.0070	.2440	.3450	.1320	.0960	.0550	.0510
165.000				.3350	.0630	.0190	-.0400	-.0370	-.0210	.2860	.3800		.0540		.0060
180.000	1.6510	1.5460	.7330	.3110	.0490	.0040	-.0540	-.0500	-.0350	.2740	.2790	.2340	.0430	.0300	-.0590
270.000		1.3660													

X/LT .7449 .8526 .9290

PHI

.000	-.0200	.0100	.0100
30.000	-.0400	-.0220	-.0180
60.000	-.0100	.0130	.0270
90.000			.0880
120.000	.0240	.0770	.1740
135.000	.0250	.1900	.0770
150.000	.0270	.2500	.0530
165.000		.3740	.0480
180.000	.0060		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RBDT24)

MACH (2) = 2.000

BETAT (4) = -.160

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6640	1.3820	.5240	.1730	-.0570	-.1010	-.1310	-.1230	-.0980	-.0510	.1140	.0330	-.0300	-.0830	-.0740
30.000			.5490	.1710	-.0540	-.1000	-.1300	-.1200	-.0920	.0350	-.0360	-.0490	-.0810	-.0870	-.0850
60.000			.5820	.2000	-.0420	-.0730	-.1210	-.1080	-.0680	.1630	-.2020	-.2230	-.0850	-.0720	.0280
90.000		1.4670	.6390	.2370	-.0130	.0000	-.0960	-.0900	.2650	.1480	-.2380	-.2120	-.0990	-.1270	-.0300
120.000			.6860	.2790	.0170	-.0210	-.0750	-.0630	-.0550	.4130	.0080	.0210	.1020	.1030	.0510
135.000								-.0590		.0780		.0640		.1090	
150.000				.7300	.3210	.0420	.0010	-.0550	-.0510	-.0360	.3380	.0810	.0740	.0500	.0060
165.000				.3240	.0480	.0080	-.0490	-.0430	-.0350	.2660	.3280		.0870		-.0170
180.000	1.6640	1.5600	.7430	.3250	.0490	.0110	-.0520	-.0390	-.0310	.2760	.2430	.0760	.1410	.0460	-.0280
270.000		1.4540													

X/LT .7449 .8526 .9290

PHI

.000	.0040	.0240	.0220
30.000	-.0160	.0010	.0060
60.000	-.0100	-.0290	.0050
90.000			.0460
120.000	-.0170	.0090	.0660
135.000	-.0170	.0870	-.0160
150.000	.0130	.1310	-.0650
165.000		.1720	-.0920
180.000	.0510		

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6540	1.3710	.5120	.1710	-.0570	-.1010	-.1330	-.1250	-.1070	-.0570	.1160	.0420	-.0430	-.0890	-.0530
30.000			.4830	.1410	-.0700	-.1140	-.1410	-.1300	-.1070	.0410	-.0750	.0080	-.0450	-.1000	-.1030
60.000			.4850	.1340	-.0700	-.0990	-.1410	-.1310	.0040	.1790	-.1780	-.2030	-.0640	-.0710	-.0020
90.000		1.3730	.5210	.1500	-.0580	.0000	-.1330	-.1250	.2280	.1660	-.2260	-.1340	-.1080	-.1230	-.0210
120.000			.5760	.2090	-.0350	-.0640	-.1100	-.1080	-.0880	.2860	.1100	.0130	.1150	.0560	.0040
135.000								-.0970		.0800		.0240		.0560	
150.000			.6560	.2660	.0110	-.0250	-.0820	-.0800	-.0670	.2320	.2700	.1380	.0420	-.0020	-.0210
165.000				.2920	.0290	-.0070	-.0650	-.0500	-.0500	.2300	.2400		.0910		-.0460
180.000	1.6540	1.5480	.7370	.3200	.0420	.0060	-.0530	-.0510	-.0370	.2340	.2510	.2330	.0760	.0390	-.0450
270.000		1.5380													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT24)

MACH (2) = 2.000

BETAT (5) = 3.920

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0150	.0030	.0030
30.000	-.0130	-.0010	.0050
60.000	-.0180	-.0130	.0070
90.000			.0110
120.000	-.0540	-.0210	-.0070
135.000	-.0360	-.0230	-.0820
150.000	-.0130	-.0630	-.1810
165.000		-.0400	-.2230
180.000	.0050		

MACH (2) = 2.000

BETAT (6) = 5.960

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6490	1.3650	.5080	.1660	-.0640	-.1070	-.1340	-.1280	-.1010	-.0670	.0970	.0250	-.0640	-.0930	-.0440
30.000			.4570	.1180	-.0820	-.1230	-.1460	-.1360	-.1120	.0500	-.0990	-.0050	-.0500	-.1080	-.1250
60.000			.4500	.1110	-.0880	-.1110	-.1500	-.1380	.0090	.1700	-.1630	-.1880	-.0450	-.0730	-.0180
90.000		1.3290	.4720	.1230	-.0820	.0000	-.1410	-.1340	.2050	.1820	-.2200	-.0970	-.1130	-.1300	-.0340
120.000			.5210	.1630	-.0540	-.0800	-.1240	-.1170	-.0690	.1570	.1860	.0090	.0920	.0450	-.0290
135.000								-.1050		.0990		-.0110		.0300	
150.000			.6140	.2310	-.0080	-.0410	-.0940	-.0890	-.0640	.2150	.2320	.1210	-.0020	-.0120	-.0350
165.000				.2660	.0170	-.0170	-.0740	-.0700	-.0400	.1940	.2200		.0170		-.0580
180.000	1.6490	1.5430	.7190	.3060	.0440	.0050	-.0550	-.0500	-.0290	.1960	.2670	.1930	.0240	.0220	-.0370
270.000		1.5830													

X/LT .7449 .8526 .9290

PHI

.000	-.0470	-.0140	-.0110
30.000	-.0150	-.0060	.0000
60.000	-.0420	-.0170	-.0020
90.000			-.0080
120.000	-.0660	-.0330	-.0490
135.000	-.0520	-.0490	-.1200
150.000	-.0420	-.1400	-.1840
165.000		-.1470	-.2030
180.000	-.0010		

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT24)

MACH (2) = 2.000

BETAT (7) = 8.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6240	1.3410	.5010	.1630	-.0630	-.1060	-.1380	-.1320	-.1180	-.1030	.0860	.0010	-.5800	-.1060	-.0520
30.000			.4410	.1010	-.0920	-.1340	-.1590	-.1500	-.1240	.0730	-.1010	-.0640	-.1010	-.1310	-.1090
60.000			.4200	.0880	-.1030	-.1260	-.1630	-.1540	.0140	.1590	-.1430	-.1690	-.0330	-.0640	-.0440
90.000		1.2690	.4350	.0940	-.1010	.0000	-.1630	-.1510	.1790	.1870	-.2120	-.0890	-.1250	-.1440	-.0230
120.000			.4840	.1390	-.0770	-.1050	-.1460	-.1380	.0160	.0460	.2010	-.0040	.0430	.0170	-.0540
135.000								-.1220		.1130		.0290		.0080	
150.000			.5860	.2170	-.0260	-.0620	-.1090	-.1020	-.0510	.1980	.1890	.1160	-.0410	-.0340	-.0490
165.000				.2600	.0070	-.0310	-.0840	-.0750	-.0260	.1590	.1730		-.0640		-.1250
180.000	1.6240	1.5250	.7130	.3040	.0420	-.0010	-.0580	-.0480	-.0150	.1910	.2700	.1340	-.0140	-.0370	-.0670
270.000		1.5960													

X/LT	.7449	.8526	.9290
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PHI

.000	-.0740	-.0510	-.0350
30.000	-.0200	-.0100	-.0150
60.000	-.0460	-.0170	.0050
90.000			-.0230
120.000	-.0730	-.0530	-.1080
135.000	-.0730	-.0970	-.1140
150.000	-.0730	-.2190	-.1840
165.000		-.1390	-.1990
180.000	-.0470		

AMES 97-707 IAS Q2A + S3 + T9 EXTERNAL TANK

(RDOT23) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.320

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4880	1.3520	.6060	.2020	-.0850	-.1400	-.1920	-.1750	-.1540	.0390	.0930	-.0560	-.1220	-.1070	-.0190
30.000			.7170	.2940	-.0150	-.0820	-.1450	-.1210	-.0960	.0500	-.1340	-.1920	-.0850	-.0150	-.0590
60.000			.8220	.3700	.0420	-.0130	-.0990	-.0780	.2180	.1800	-.2830	-.2280	-.0060	.0190	.0110
90.000		1.5190	.8550	.4020	.0670	.0000	-.0760	-.0630	.6180	-.0630	-.4640	-.0260	.0240	-.1070	-.1810
120.000			.8150	.3660	.0400	-.0190	-.0940	-.0850	.2510	.1710	-.2940	-.0750	.1920	.1570	.0530
135.000								-.1110		.1550		.0160		.1810	
150.000			.7150	.2880	-.0230	-.0720	-.1420	-.1340	-.1020	.1070	.2390	.0280	-.0160	.0990	.0640
165.000				.2340	-.0610	-.1050	-.1650	-.1580	-.1350	.3220	.2490		-.0990		-.0310
180.000	1.4880	1.3360	.5990	.1850	-.0930	-.1320	-.1950	-.1860	-.1540	.2470	.1060	-.0520	-.1740	-.1350	-.1470
270.000		1.1610													
X/LT	.7449	.8526	.9290												
PHI															
.000	.0210	.0280	.0100												
30.000	-.0290	.0060	.0460												
60.000	.0040	.0000	.0290												
90.000			-.1060												
120.000	.0810	.3730	.2580												
135.000	.0480	.3740	.2450												
150.000	.0210	.3500	.2610												
165.000		.5120	.2140												
180.000	-.1180														

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5180	1.3770	.6160	.2010	-.0880	-.1440	-.1920	-.1770	-.1420	.0960	.1060	-.0340	-.1120	-.1240	.0010
30.000			.6990	.2680	-.0390	-.1030	-.1600	-.1370	-.1120	.0350	-.1020	-.1420	-.0980	-.0100	-.0580
60.000			.7730	.3260	.0070	-.0480	-.1260	-.1080	.1780	.1780	-.2870	-.2410	-.0580	.0220	.0070
90.000		1.5050	.8090	.3460	.0260	.0000	-.1090	-.0970	.5850	-.0680	-.4680	-.0460	-.0130	-.1230	-.1650
120.000			.7770	.3280	.0120	-.0460	-.1220	-.1130	.0930	.1700	-.2880	-.0860	.1580	.1460	.0150
135.000								-.1310		.1810		-.0410		.1530	
150.000			.7050	.2720	-.0350	-.0860	-.1540	-.1490	-.1160	.1890	.2350	.0200	-.0480	.0670	.0360

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(REGOT25)

$$\text{MACH (1)} = 1.555$$

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEFENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9290
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FBI

.000	-.0330	.0150	.0360
30.000	-.0210	-.0290	.0220
60.000	-.0100	-.0100	.0010
90.000			-.0820
120.000	.0170	.2900	.2120
135.000	.0170	.3070	.2100
150.000	.0320	.2790	.2100
165.000		.4420	.1580
180.000	-.1260		

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION 1.1 EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9290
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PHI

.000	-.0150	-.0030	-.0040
30.000	-.0140	-.0090	.0140
60.000	-.0140	-.0030	.0050
90.000			-.0680
120.000	-.0260	.2200	.1670
135.000	.0100	.2500	.1360
150.000	-.0010	.2450	.1020

AMES 97-707 IA9 CCA + S3 + T9 EXTERNAL TANK

(RDOT25)

MACH (1) = 1.555

BETAT (3) = -4.240

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3490 .0660

180.000 -.0720

MACH (1) = 1.555

BETAT (4) = -.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5480 1.3950 .6310 .2140 -.0670 -.1280 -.1850 -.1630 -.1260 .1050 .1420 -.0010 -.1030 -.1490 -.0130

30.000 .6330 .2130 -.0720 -.1300 -.1870 -.1610 -.1250 .0520 .0450 -.0700 -.1220 -.0470 -.0610

60.000 .6350 .2100 -.0700 -.1210 -.1860 -.1630 .1230 .2260 -.2540 -.2440 -.0100 .0110 -.0220

90.000 1.3920 .6370 .2120 -.0670 .0000 -.1820 -.1720 .4820 -.0420 -.4500 -.0420 -.1340 -.0310 -.1420

120.000 .6370 .2070 -.0660 -.1170 -.1810 -.1700 .1090 .2430 -.1060 -.1710 .0780 .0740 -.0660

135.000 .6380 .2150 -.0690 -.1200 -.1820 -.1660 -.1240 .2720 .2300 .0370 -.0520 -.0090 -.0160

165.000 .2110 -.0730 -.1180 -.1790 -.1670 -.0960 .2490 .1830 -.0480 .0060

180.000 1.5480 1.4030 .6400 .2070 -.0700 -.1190 -.1820 -.1660 .0920 .1910 .1380 .1470 -.0470 -.1290 .0120

270.000 1.3940

X/LT .7449 .8526 .9290

PHI

.000 .0110 .0180 .0080

30.000 .0010 .0110 .0150

60.000 .0060 -.0010 .0250

90.000 -.0130

120.000 -.0400 .1240 .0620

135.000 -.0560 .1470 .0380

150.000 -.0380 .1580 -.0190

165.000 .1320 -.0810

180.000 -.0110

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT25)

MACH (1) = 1.555

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5370	1.3800	.6400	.2210	-.0720	-.1290	-.1810	-.1660	-.1310	.0910	.1270	-.0110	-.1080	-.1480	.0190
30.000			.5870	.1730	-.0950	-.1520	-.2030	-.1820	-.1510	.0600	-.0290	-.0280	-.1280	-.0990	-.0630
60.000			.5530	.1430	-.1130	-.1590	-.2190	-.1980	.0790	.2560	-.2190	-.2130	.0180	-.0060	-.0340
90.000		1.2910	.5410	.1360	-.1200	.0000	-.2230	-.2100	.3910	-.0510	-.4430	-.0170	-.0350	-.0570	-.0920
120.000			.5390	.1440	-.1130	-.1570	-.2150	-.2030	.1150	.2720	-.0450	-.1450	.0120	.0000	-.0890
135.000								-.1980	.0510		-.0570		-.0230		
150.000			.5790	.1700	-.0950	-.1410	-.2020	-.1890	.1070	.2230	.1320	-.0240	-.1330	-.0640	-.0130
165.000				.1830	-.0880	-.1300	-.1910	-.1820	.0890	.1960	.1280		-.1110		-.0550
180.000	1.5370	1.3870	.6300	.2000	-.0750	-.1200	-.1840	-.1740	-.1180	.2050	.1130	.0550	-.0670	-.1370	.0120
270.000		1.4720													

X/LT .7449 .8526 .9290

PHI

.000	-.0010	.0010	.0030
30.000	-.0140	.0050	.0030
60.000	.0160	-.0100	.0310
90.000			.0010
120.000	-.0330	.0600	-.0250
135.000	-.0850	-.0060	-.0900
150.000	-.1040	-.0850	-.0950
165.000		-.1040	-.1290
180.000	-.0570		

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5180	1.3620	.6310	.2180	-.0730	-.1310	-.1840	-.1710	-.1460	.0360	.1020	-.0330	-.1020	-.1170	.0050
30.000			.5560	.1500	-.1180	-.1750	-.2220	-.1960	-.1550	.1260	-.0360	-.1030	-.1600	-.1010	-.0610
60.000			.5110	.1080	-.1390	-.1770	-.2330	-.2150	.0650	.2790	-.1920	-.1570	.0180	-.0310	-.0440
90.000		1.2320	.4970	.0930	-.1440	.0000	-.2390	-.2220	.3570	-.0460	-.4310	-.0020	-.0440	-.0450	-.1050
120.000			.5020	.1050	-.1370	-.1760	-.2290	-.2120	.0960	.3280	.0060	-.1050	-.0230	-.0350	-.0740
135.000								-.2030	.0890		-.0860		-.0510		
150.000			.5500	.1480	-.1180	-.1590	-.2130	-.1970	.1010	.3070	.1340	-.0520	-.1440	-.0810	-.0370
165.000				.1730	-.1010	-.1450	-.2030	-.1880	-.0850	.3140	.0480		-.1450		-.0170
180.000	1.5180	1.3700	.6200	.2040	-.0790	-.1260	-.1890	-.1740	-.1080	.3900	.1020	-.0160	-.1100	-.1350	-.0620
270.000		1.4960													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9DCA + S3 + T9 EXTERNAL TANK

(RDOT25)

MACH (1) = 1.555

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0230	.0170	.0420
30.000	-.0190	.0530	.0470
60.000	.0350	.0490	.0470
90.000			.0190
120.000	-.0920	.0370	-.0070
135.000	-.1030	-.0050	-.0650
150.000	-.1380	-.0410	-.1170
165.000		-.0400	-.1470
180.000	-.1290		

MACH (1) = 1.555

BETAT (7) = 8.040

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5090	1.3500	.6170	.2060	-.0770	-.1400	-.1920	-.1760	-.1520	.0050	.0780	-.0540	-.1000	-.1010	-.0260
30.000			.5130	.1220	-.1390	-.1950	-.2330	-.2170	-.1740	.1020	.0020	-.0890	-.1440	-.1120	-.0070
60.000			.4530	.0720	-.1620	-.1970	-.2500	-.2300	.0560	.2970	-.1600	-.0570	.0040	-.0670	.0490
90.000		1.1900	.4390	.0610	-.1680	.0000	-.2540	-.2330	.3430	-.0440	-.4210	.0140	-.0530	-.0790	.0200
120.000			.4430	.0730	-.1630	-.1990	-.2410	-.2340	.0720	.3520	.0310	.0040	-.0770	-.0650	-.0160
135.000								-.2330		.0870		-.0900		-.0750	
150.000			.5000	.1230	-.1400	-.1710	-.2310	-.2050	.0000	.2950	.0950	-.0800	-.1630	-.1020	-.0480
165.000				.1520	-.1090	-.1500	-.2150	-.2030	-.0690	.3060	.0050		-.1940		-.0840
180.000	1.5090	1.3630	.6060	.1880	-.0820	-.1270	-.1900	-.1820	-.1170	.4480	.0990	-.0650	-.1780	-.1310	-.1190
270.000		1.5260													

X/LT .7449 .8526 .9290

PHI

.000	.0150	.0310	.0230
30.000	.0430	.0230	.0100
60.000	.0680	.0100	-.0020
90.000			-.0330
120.000	-.0500	.0020	-.0800
135.000	-.0710	-.0590	-.1250
150.000	-.0820	-.1210	-.1690
165.000		-.1440	-.1980
180.000	-.1440		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT25)

MACH (2) = 2.000

DETAT (1) = -8.290

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6340	1.4550	.6080	.2360	-.0240	-.0720	-.1080	-.1020	-.0920	-.0770	.0940	.0110	-.0430	-.0680	-.0240
30.000			.7190	.3040	.0410	-.0210	-.0650	-.0560	-.0470	.0760	-.0020	-.1030	-.1020	-.0440	-.0410
60.000			.8150	.3780	.0930	.0440	-.0240	-.0190	.0760	.3200	-.1320	-.1420	-.0850	.0310	.0140
90.000		1.6160	.8500	.4070	.1090	.0000	-.0080	-.0020	.3710	.2010	-.2500	-.2220	.0080	.0580	-.0000
120.000			.8080	.3770	.0870	.0430	-.0210	-.0170	.0180	.3250	-.1330	-.0640	.0270	.2040	.1260
135.000								-.0360		.2810		.0370		.1330	
150.000			.7160	.3050	.0370	-.0030	-.0600	-.0570	-.0340	.0610	.3330	.1600	.0870	.0340	.0660
165.000				.2580	.0060	-.0290	-.0830	-.0780	-.0420	.0670	.3890		.0430		-.0050
180.000	1.6340	1.4410	.6030	.2110	-.0250	-.0540	-.1040	-.1000	-.0570	.0990	.2860	.0930	-.0080	-.0490	-.0950
270.000		1.2750													

X/LT .7449 .8526 .9290

PHI

.000	-.0450	-.0540	-.0410
30.000	-.0260	-.0330	-.0210
60.000	-.0120	-.0060	.0200
90.000			.0360
120.000	.0730	.2190	.2760
135.000	.0980	.2950	.1900
150.000	.0950	.2720	.1860
165.000		.5620	.1680
180.000	-.0460		

MACH (2) = 2.000

DETAT (2) = -6.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6490	1.4610	.6090	.2380	-.0210	-.0700	-.1050	-.1000	-.0790	-.0680	.1120	.0370	-.0240	-.0550	-.0190
30.000			.6940	.2830	.0220	-.0350	-.0750	-.0640	-.0500	.0860	.0230	-.0880	-.0870	-.0500	-.0310
60.000			.7670	.3350	.0580	.0190	-.0400	-.0350	.0370	.3250	-.1280	-.1500	-.1060	.0140	.0180
90.000		1.5830	.7980	.3580	.0720	.0000	-.0260	-.0260	.3440	.2020	-.2480	-.2290	.0740	.0350	-.0970
120.000			.7690	.3360	.0600	.0240	-.0350	-.0350	.0050	.3360	-.1240	-.0760	.0130	.1740	.1070
135.000								-.0470		.3000		.0520		.0690	
150.000			.6990	.2870	.0250	-.0130	-.0660	-.0620	-.0320	.0410	.4160	.1250	.0800	.0070	.0490
165.000				.2560	.0020	-.0320	-.0860	-.0820	-.0510	.1110	.3910		.0530		.0050
180.000	1.6490	1.4530	.6110	.2230	-.0180	-.0480	-.1010	-.1000	-.0770	.1750	.2780	.1570	.0060	-.0220	-.0750
270.000		1.3290													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 1A9 CCA + S3 + T9 EXTERNAL TANK

(RDOT25)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0260	-.0260	-.0170
30.000	-.0200	-.0200	-.0080
60.000	.0120	.0010	.0240
90.000			.0640
120.000	.0370	.1450	.2620
135.000	.0700	.2290	.1300
150.000	.0690	.2380	.1360
165.000		.4700	.1170
180.000	-.0850		

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6570	1.4680	.6190	.2390	-.0210	-.0710	-.1030	-.0950	-.0770	-.0580	.1500	.0440	-.0220	-.0510	-.0270
30.000			.6710	.2670	.0130	-.0410	-.0810	-.0740	-.0500	.0940	.0190	-.0750	-.0600	-.0530	-.0410
60.000			.7160	.3050	.0390	-.0020	-.0600	-.0520	.0080	.3210	-.1310	-.1600	-.1190	.0070	.0160
90.000		1.5420	.7340	.3210	.0440	.0000	-.0480	-.0410	.3220	.1960	-.2510	-.2450	.0380	.0010	-.1080
120.000			.7150	.3090	.0390	.0000	-.0560	-.0500	-.0080	.3350	-.1280	-.0890	-.0220	.1380	.0880
135.000								-.0600		.1700		.0460		.0250	
150.000			.6770	.2770	.0150	-.0170	-.0750	-.0720	-.0460	.1270	.4010	.0990	.0630	.0190	.0360
165.000				.2490	-.0010	-.0300	-.0850	-.0820	-.0640	.2130	.3800		.0560		-.0290
180.000	1.6570	1.4650	.6220	.2250	-.0150	-.0450	-.0080	-.0940	-.0750	.1970	.2880	.2210	.0510	.0000	-.0970
270.000		1.3770													

X/LT .7449 .8526 .9290

PHI

.000	-.0160	-.0040	.0020
30.000	-.0190	-.0110	.0050
60.000	.0130	.0000	.0240
90.000			.0880
120.000	-.0020	.1130	.2120
135.000	.0300	.1910	.1090
150.000	.0280	.2340	.0880
165.000		.4250	.0720
180.000	-.0700		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RBD0125)

MACH (2) = 2.000

DETAT (4) = -.140

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6630	1.4600	.6220	.2530	-.0100	-.0590	-.0930	-.0860	-.0640	-.0520	.1550	.0680	-.0010	-.0420	-.0540
30.000			.6240	.2300	-.0110	-.0660	-.0990	-.0800	-.0620	.0950	-.0450	.0260	-.0260	-.0600	-.0630
60.000			.6340	.2300	-.0110	-.0430	-.0960	-.0860	-.0510	.3200	-.1120	-.1540	-.0990	.0180	.0200
90.000		1.4620	.6380	.2310	-.0180	.0000	-.0890	-.0830	.2730	.1930	-.2470	-.2220	.0110	-.0630	-.0710
120.000			.6370	.2340	-.0120	-.0420	-.0960	-.0850	-.0590	.3410	-.0890	-.0400	-.0770	.0880	.0360
135.000								-.0900		.0780		.0290		.0110	
150.000			.6390	.2390	-.0090	-.0400	-.0960	-.0890	-.0590	.2100	.3010	.0520	.0570	-.0210	-.0200
165.000				.2380	-.0110	-.0370	-.0940	-.0890	-.0610	.2070	.3150		.0820		-.0730
180.000	1.6630	1.4720	.6350	.2350	-.0110	-.0360	-.0930	-.0850	-.0630	.2100	.2520	.1310	.1280	.0110	-.0850
270.000		1.4600													

X/LT .7449 .8526 .9290

PHI

.000	.0010	.0140	.0120
30.000	-.0090	.0000	.0110
60.000	-.0030	-.0090	.0300
90.000			.0720
120.000	-.0340	.0480	.1060
135.000	-.0180	.1050	.0120
150.000	.0050	.1480	-.0510
165.000		.1710	-.0830
180.000	.0450		

MACH (2) = 2.000

DETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6750	1.4740	.6260	.2420	-.0130	-.0620	-.0970	-.0910	-.0760	-.0630	.1590	.0530	-.0150	-.0460	-.0260
30.000			.5720	.1920	-.0350	-.0850	-.1160	-.1060	-.0900	.0880	-.0840	.0200	-.0010	-.0550	-.0900
60.000			.5390	.1670	-.0530	-.0810	-.1270	-.1170	.0010	.2420	-.0770	-.1350	-.0520	.0270	.0090
90.000		1.3880	.5310	.1570	-.0590	.0000	-.1280	-.1240	.2130	.1980	-.2380	-.1250	.0070	-.0310	-.0630
120.000			.5360	.1630	-.0530	-.0790	-.1240	-.1200	.0090	.2330	-.0320	-.0270	-.0180	.0430	-.0130
135.000								-.1190		.0040		.0240		.0180	
150.000			.5810	.1930	-.0350	-.0650	-.1150	-.1120	-.0920	.1730	.2520	.1460	.0180	-.0670	-.0470
165.000				.2090	-.0260	-.0570	-.1050	-.1030	-.0850	.1670	.2570		.0520		-.1140
180.000	1.6750	1.4850	.6380	.2270	-.0140	-.0460	-.0960	-.0950	-.0760	.1910	.2720	.2190	.0650	.0020	-.0910
270.000		1.5630													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RBDT25)

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0130	-.0090	-.0080
30.000	-.0150	-.0030	-.0030
60.000	-.0180	-.0130	.0220
90.000			.0310
120.000	-.0660	.0080	.0300
135.000	-.0260	-.0130	-.0500
150.000	-.0050	-.0680	-.1640
165.000		-.0310	-.1850
180.000	-.0180		

MACH (2) = 2.000

BETAT (6) = 8.020

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6300	1.4320	.6000	.2400	-.0110	-.0620	-.1020	-.0950	-.0820	-.0790	.0870	.0210	-.0430	-.0730	-.0280
30.000			.5040	.1550	-.0620	-.1070	-.1350	-.1300	-.1110	.0810	-.0410	-.0420	-.0720	-.0960	-.0660
60.000			.4490	.1170	-.0880	-.1150	-.1550	-.1470	.0280	.1240	-.0420	-.1090	.0030	.0220	-.0470
90.000		1.2780	.4360	.1000	-.0950	.0000	-.1580	-.1500	.1600	.2140	-.2280	-.0330	-.0020	-.0290	-.0530
120.000			.4430	.1130	-.0910	-.1140	-.1520	-.1460	.0530	.0900	.0870	-.0300	.0440	-.0050	-.0780
135.000								-.1420		.1020		.0200		-.0250	
150.000			.5050	.1570	-.0610	-.0910	-.1350	-.1220	-.0680	.1400	.1750	.0940	-.0550	-.1130	-.0880
165.000				.1860	-.0410	-.0720	-.1180	-.1110	-.0660	.1200	.1890		-.0560		-.1570
180.000	1.6300	1.4480	.6020	.2230	-.0170	-.0510	-.1000	-.0940	-.0490	.1020	.2700	.1080	-.0180	-.0520	-.0860
270.000		1.6110													

X/LT .7449 .8526 .9290

PHI

.000	-.0520	-.0670	-.0590
30.000	-.0360	-.0270	-.0310
60.000	-.0430	-.0210	-.0070
90.000			-.0110
120.000	-.0830	-.0430	.0060
135.000	-.0830	-.0870	-.0660
150.000	-.0700	-.1820	-.1490
165.000		-.1450	-.1500
180.000	-.0490		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT26) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEWON = .000
 RUDFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4750	1.4230	.7100	.2900	-.0120	-.0790	-.1430	-.1280	-.1050	.0030	.0860	-.0140	-.0590	-.0670	.0160
30.000			.8270	.3780	.0510	-.0150	-.0920	-.0710	-.0410	.1230	-.0400	-.1320	-.0290	.0150	-.0070
60.000			.8800	.4190	.0900	.0230	-.0630	-.0430	.2860	.2970	-.1850	-.1170	-.0140	.0450	.0730
90.000	1.5070		.8530	.3930	.0670	.0000	-.0790	-.0690	.5740	-.0550	-.3060	-.1250	.0190	.0940	.0820
120.000			.7410	.3100	.0020	-.0580	-.1300	-.1230	.1560	.0260	-.2410	-.0810	.0160	.1180	.0740
135.000								-.1550		.0150		.0810		.1220	
150.000			.6130	.2050	-.0780	-.1260	-.1910	-.1860	-.1430	.0350	.1820	.0590	-.0240	.0810	.0640
165.000				.1490	-.1140	-.1570	-.2180	-.2110	-.1170	.1560	.2210		-.0800		-.0200
180.000	1.4750	1.2440	.4980	.1090	-.1400	-.1830	-.2400	-.2300	.0450	.1330	.0970	-.0280	-.1420	-.1460	-.1560
270.000		1.1480													

X/LT .7449 .8526 .9290

PHI

.000	-.0360	.0450	.0410
30.000	.0010	.0140	.0720
60.000	.0270	.0670	.0400
90.000			-.1210
120.000	.0930	.3880	.2960
135.000	.0830	.4500	.2830
150.000	.0440	.4720	.2800
165.000		.5070	.3040
180.000	.0090		

MACH (1) = 1.555

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4980	1.4460	.7210	.2890	-.0210	-.0840	-.1450	-.1300	-.0970	.0240	.1330	.0040	-.0550	-.0740	.0350
30.000			.8030	.3550	.0290	-.0440	-.1100	-.0880	-.0600	.1240	-.0120	-.0720	-.0350	.0070	-.0060
60.000			.8370	.3730	.0510	-.0110	-.0940	-.0780	.2400	.3010	-.1870	-.1250	-.0130	.0460	.0510
90.000	1.4880		.7990	.3420	.0240	.0000	-.1140	-.1010	.5430	-.0610	-.3100	-.1410	.0090	.0870	.0610
120.000			.7010	.2730	-.0330	-.0850	-.1540	-.1460	.1290	.0300	-.2330	-.1340	.0080	.0950	.0430
135.000								-.1730		.0320		.0360		.0870	
150.000			.6030	.1840	-.0960	-.1410	-.2050	-.1900	-.1440	.0060	.1930	.0430	.0360	.0470	.0200

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RBO126)

MACH (1) = 1.555

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.1410	-.1270	-.1660	-.2240	-.2110	-.1600	.1600	.2200		-.0800		-.0490
180.000	1.4980	1.2640	.5150	.1080	-.1450	-.1820	-.2350	-.2210	.0090	.1330	.1370	.0060	-.0830	-.1500	-.1430
270.000		1.2140													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0320	-.0230	.0620
30.000	.0020	.0010	.0310
60.000	.0170	.0590	.0270
90.000			-.1440
120.000	.0500	.3440	.2650
135.000	.0370	.3970	.2550
150.000	.0560	.3830	.2550
165.000		.4840	.2320
180.000	-.0510		

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5300	1.4690	.7330	.2910	-.0150	-.0860	-.1490	-.1290	-.0940	.0540	.1670	.0280	-.0550	-.0810	.0470
30.000			.7780	.3310	.0130	-.0540	-.1280	-.1040	-.0700	.1170	.0240	-.0460	-.0440	.0010	-.0270
60.000			.7820	.3270	.0180	-.0470	-.1130	-.0960	.2130	.3180	-.1770	-.1520	-.0120	.0490	.0280
90.000		1.4710	.7410	.2890	-.0190	.0000	-.1350	-.1280	.5110	-.0570	-.2930	-.1460	.0130	.0800	.0500
120.000			.6630	.2320	-.0620	-.1150	-.1670	-.1590	.1150	.0440	-.2250	-.2030	.0140	.0800	.0020
135.000								-.1780		.0570		-.0210		.1080	
150.000			.5890	.1740	-.1020	-.1500	-.2110	-.1930	-.1540	.1480	.1950	-.0160	-.0630	.0470	-.0030
165.000				.1430	-.1210	-.1610	-.2220	-.2150	-.0270	.1860	.2060		-.0610		-.0600
180.000	1.5300	1.2960	.5310	.1180	-.1350	-.1760	-.2320	-.2220	.0390	.1110	.1240	.0710	-.0600	-.1530	-.0080
270.000		1.2860													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0130	.0020	.0190
30.000	-.0020	.0150	.0520
60.000	-.0160	.0550	.0350
90.000			-.1560
120.000	.0390	.2970	.2170
135.000	.0610	.3360	.2050
150.000	.0570	.3380	.1900

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT26)

MACH (1) = 1.555

BETAT (3) = -4.220

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3730 .1550

180.000 -.0230

MACH (1) = 1.555

BETAT (4) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.5370 1.4690 .7380 .3040 -.0050 -.0720 -.1320 -.1170 -.0840 -.0420 .2190 .0600 -.0450 -.0880 .0150

30.000 .7220 .2890 -.0140 -.0810 -.1400 -.1220 -.0900 .1530 .0340 .0150 -.0530 -.0440 -.0590

60.000 .6790 .2510 -.0370 -.0880 -.1580 -.1420 .1750 .3560 -.1530 -.1620 -.0090 .0340 -.0070

90.000 1.3820 .6280 .2010 -.0690 .0000 -.1840 -.1750 .4530 -.0580 -.3120 -.1330 .0310 .0410 .0160

120.000 .5760 .1660 -.1020 -.1450 -.2010 -.1910 .1040 .0990 -.2850 -.1360 .0680 .0400 -.0500

135.000 .5420 .1420 -.1170 -.1600 -.2140 -.2010 -.0300 .1720 .1920 -.0260 -.0730 -.0060 .0210

150.000 .1270 -.1250 -.1610 -.2160 -.2040 .0550 .1730 .1910 -.0590 .0870

165.000 1.5370 1.3010 .5290 .1210 -.1250 -.1640 -.2200 -.2050 .0780 .1190 .1630 .1590 -.0640 -.1520 .1080

180.000 1.3860

X/LT .7449 .8526 .9290

PHI

.000 .0040 .0280 .0270

30.000 .0010 .0240 .0520

60.000 .0290 .0280 .0440

90.000 -.0250

120.000 .0440 .1910 .1060

135.000 .0290 .2140 .0770

150.000 .0030 .1930 .0350

165.000 .1500 -.0140

180.000 .0110

DATE 24 SEP 73

TABULATED PRESSURE DATA - IA98

PAGE 2093

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT26)

MACH (1) = 1.555

BETAT (5) = 3.960

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5210	1.4580	.7410	.3100	-.0030	-.0690	-.1310	-.1140	-.0860	-.0390	.1680	.0360	-.0530	-.0910	.0210
30.000			.6640	.2420	-.0470	-.1110	-.1660	-.1510	-.0900	.1170	.0790	-.0120	-.0910	-.0730	-.0480
60.000			.5830	.1810	-.0900	-.1400	-.2030	-.1880	.1360	.3970	-.1170	-.1200	.0140	.0030	-.0350
90.000		1.2770	.5290	.1310	-.1270	.0000	-.2270	-.2140	.4000	-.0660	-.3170	-.1000	.0410	-.0130	-.0120
120.000			.4880	.1120	-.1400	-.1780	-.2320	-.2160	.0840	.1310	-.2030	-.1310	.0200	-.0120	-.0630
135.000								-.2180		.0690		-.0400		-.0180	
150.000			.4910	.1110	-.1410	-.1800	-.2280	-.2140	.0780	.1610	.1850	-.0410	-.1370	-.0730	.0240
165.000				.1130	-.1410	-.1730	-.2250	-.2110	.0660	.1560	.1090		-.1240		.0520
180.000	1.5210	1.2860	.5220	.1180	-.1330	-.1690	-.2240	-.2060	.0080	.2410	.1070	.0470	-.0720	-.1570	.0210
270.000		1.4610													

X/LT .7449 .8526 .9290

PHI															
.000	.0030	.0120	.0320												
30.000	-.0130	.0170	.0210												
60.000	.0110	.0120	.0310												
90.000			.0120												
120.000	.0070	.0440	.0450												
135.000	-.0090	.0070	.0130												
150.000	-.0330	-.0670	-.0080												
165.000		-.0730	-.1080												
180.000	-.0110														

MACH (1) = 1.555

BETAT (6) = 6.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5080	1.4420	.7330	.3090	-.0050	-.0720	-.1330	-.1200	-.0920	.0280	.1200	.0130	-.0490	-.0700	.0180
30.000			.6290	.2150	-.0720	-.1330	-.1820	-.1700	-.1140	.1180	.0690	-.0170	-.0970	-.0660	-.0710
60.000			.5410	.1380	-.1200	-.1670	-.2250	-.2070	.1050	.4170	-.0880	-.0950	.0320	-.0130	-.0590
90.000		1.2210	.4860	.0860	-.1470	.0000	-.2430	-.2290	.3690	-.0660	-.3210	-.0270	.0180	-.0650	-.0490
120.000			.4570	.0680	-.1520	-.1910	-.2450	-.2270	.0530	.1590	-.1450	-.1350	-.0050	-.0280	-.0740
135.000								-.2280		.0890		-.0710		-.0160	
150.000			.4690	.0870	-.1510	-.1890	-.2400	-.2270	.0610	.2230	.1470	-.0480	-.1650	-.0680	-.0150
165.000				.1020	-.1480	-.1850	-.2390	-.2220	.0150	.2430	.0960		-.1500		.0120
180.000	1.5080	1.2720	.5170	.1220	-.1340	-.1750	-.2300	-.2070	-.0710	.2230	.1390	.0120	-.0870	-.1610	-.1250
270.000		1.4920													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(SDOT26)

MACH (1) = 1.555

BETAT (6) = 6.010

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0300	-.0110	.0680
30.000	-.0290	.0650	.0660
60.000	-.0060	.0630	.0590
90.000			.0210
120.000	.0160	.1070	.0380
135.000	-.0200	.0410	.0010
150.000	-.0360	-.0860	-.0790
165.000		-.0830	-.1410
180.000	-.0460		

MACH (1) = 1.555

BETAT (7) = 8.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5020	1.4310	.7140	.2990	-.0110	-.0770	-.1390	-.1290	-.1040	.0110	.0740	-.0140	-.0480	-.0620	.0130
30.000			.5820	.1870	-.1000	-.1570	-.2050	-.1910	-.1180	.1210	.0890	-.0250	-.1020	-.0700	-.1010
60.000			.4790	.0990	-.1500	-.1920	-.2460	-.2190	.0340	.3050	-.0340	-.0660	.0190	-.0510	.0420
90.000		1.1740	.4340	.0500	-.1730	.0000	-.2580	-.2410	.3390	-.0670	-.2900	.0160	-.0180	-.1470	.0510
120.000			.4090	.0400	-.1780	-.2160	-.2570	.2380	.0350	.1950	-.0950	-.1320	-.0550	-.0390	-.0250
135.000							-.2410		.0340		-.0820			-.0300	
150.000			.4290	.0610	-.1760	-.2080	-.2570	-.2250	.0350	.2350	.1380	-.0780	-.2030	-.0960	-.0040
165.000				.0850	-.1620	-.1970	-.2450	-.2120	-.0090	.1890	.0540		-.1920		-.0550
180.000	1.5020	1.2680	.5000	.1130	-.1440	-.1830	-.2320	-.2070	-.0650	.2220	.1030	-.0450	-.1380	-.1550	-.1610
270.000		1.5260													

X/LT .7449 .8526 .9290

PHI

.000	-.0350	.0400	.0530
30.000	.0490	.0410	.0250
60.000	.0430	.0220	.0180
90.000			-.0110
120.000	.0050	.0150	.0240
135.000	-.0170	-.0550	-.0340
150.000	-.0040	-.1790	-.1310
165.000		-.1310	-.1560
180.000	.0020		

AMES 97-797 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT26)

MACH (2) = 2.000

BETAT (1) = -8.280

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6160	1.5230	.7150	.3190	.0390	-.0160	-.0640	-.0630	-.0520	-.0470	.1030	.0310	.0000	-.0300	.0140
30.000			.8280	.3910	.1030	.0380	-.0200	-.0120	.0000	.1620	.0910	-.0290	-.0370	-.0010	-.0110
60.000			.8760	.4290	.1270	.0750	.0010	.0120	.0450	.4390	-.0440	-.0700	-.0310	.0090	.0700
90.000		1.6010	.8480	.4110	.1100	.0000	-.0000	-.0050	.3620	.2140	-.2280	-.2340	.0120	.1290	.1120
120.000			.7390	.3320	.0530	.0070	-.0520	-.0480	.0860	.1790	-.2010	-.1830	-.0060	.1810	.0940
135.000								-.0750		.0860		-.0690		.1410	
150.000			.6070	.2280	-.0150	-.0510	-.1030	-.1010	-.0630	.0980	.1480	.1030	.0400	.0300	.0780
165.000				.1800	-.0470	-.0780	-.1270	-.1200	-.0730	.0450	.3460		.0250		.0030
180.000	1.6160	1.3500	.4980	.1400	-.0730	-.0900	-.1420	-.1190	-.0770	.0680	.2780	.0060	-.0130	-.0800	-.0840
270.000		1.2670													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0190	-.0250	-.0300
30.000	.0240	.0010	.0220
60.000	.0610	.0550	.0840
90.000			.0050
120.000	.1210	.2330	.2880
135.000	.1030	.3130	.2520
150.000	.0960	.2740	.2370
165.000		.6010	.2260
180.000	-.0440		

MACH (2) = 2.000

BETAT (2) = -6.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6280	1.5310	.7160	.3230	.0360	-.0210	-.0610	-.0560	-.0400	-.0280	.1380	.0480	.0090	-.0120	.0250
30.000			.7980	.3700	.0770	.0150	-.0320	-.0170	-.0060	.1650	.0890	-.0120	-.0160	-.0100	-.0150
60.000			.8270	.3810	.0910	.0520	-.0100	-.0060	.0140	.4570	-.0390	-.0760	-.0480	-.0100	.0620
90.000		1.5630	.7900	.3520	.0720	.0000	-.0290	-.0230	.3360	.2140	-.2260	-.2360	.0030	.1060	.1000
120.000			.7020	.2850	.0240	-.0050	-.0610	-.0600	.0600	.1830	-.1970	-.1760	.0010	.1570	.0750
135.000								-.0810		.0850		-.0460		.1140	
150.000			.5970	.2070	-.0330	-.0610	-.1030	-.0990	-.0580	.1100	.2510	.0870	.0430	.0010	.0480
165.000				.1730	-.0570	-.0800	-.1240	-.1140	-.0710	.0700	.3410		.0400		-.0170
180.000	1.6280	1.3540	.5100	.1400	-.0730	-.0930	-.1350	-.1260	-.0880	.1050	.2810	.1160	.0160	-.0270	-.0840
270.000		1.3100													

X/LT	.7449	.8526	.9290
PHI			

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK

(RDOT26)

MACH (2) = 2.000

BETAT (2) = -6.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	-.0060	-.0080	-.0120
30.000	.0200	.0040	.0220
60.000	.0460	.0380	.0800
90.000			-.0030
120.000	.0820	.1860	.2480
135.000	.0760	.2590	.2200
150.000	.0560	.2250	.1900
165.000		.5170	.1610
180.000	-.0700		

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6500	1.5420	.7280	.3230	.0420	-.0130	-.0600	-.0550	-.0390	-.0160	.1550	.0860	.0200	-.0100	.0230
30.000			.7710	.3500	.0710	.0120	-.0400	-.0320	-.0140	.1650	.0460	.0060	-.0090	-.0110	-.0260
60.000			.7700	.3510	.0740	.0260	-.0360	-.0260	-.0020	.4620	-.0420	-.0880	-.0650	-.0150	.0550
90.000		1.5370	.7260	.3180	.0450	.0000	-.0500	-.0410	.3140	.2060	-.2290	-.2450	.0000	.0950	.0830
120.000			.6550	.2630	.0090	-.0290	-.0800	-.0720	.0280	.1730	-.2030	-.1600	.0130	.1320	.0640
135.000							-.0900			.0680		.0050		.0790	
150.000			.5780	.2060	-.0310	-.0650	-.1110	-.1050	-.0640	.0410	.2870	.0610	.0260	-.0070	.0210
165.000				.1740	-.0500	-.0790	-.1240	-.1160	-.0780	.1000	.3290		.0400		-.0350
180.000	1.6500	1.3770	.5200	.1510	-.0590	-.0880	-.1340	-.1270	-.0980	.1340	.2700	.1950	.0450	-.0300	-.1090
270.000		1.3730													

X/LT .7449 .8526 .9290

PHI

.000	.0020	.0060	.0080
30.000	.0150	.0070	.0320
60.000	.0350	.0230	.0680
90.000			.0190
120.000	.0410	.1400	.2070
135.000	.0420	.2260	.1880
150.000	.0220	.2720	.1230
165.000		.3660	.1000
180.000	.0760		

AMES 97-707 1A9 CCA + S3 + T9 EXTERNAL TANK

(RDOT26)

MACH (2) = 2.000

BETAT (4) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6570	1.5440	.7320	.3310	.0570	.0000	-.0500	-.0450	-.0310	-.0020	.1500	.1050	.0450	-.0030	-.0010
30.000			.7220	.3100	.0460	-.0110	-.0580	-.0530	-.0140	.0750	.0200	.0580	.0240	-.0090	-.0570
60.000			.6830	.2800	.0180	-.0230	-.0760	-.0680	-.0300	.4140	-.0230	-.0820	-.0640	-.0100	.0520
90.000		1.4620	.6320	.2350	-.0120	.0000	-.1020	-.0940	.2600	.1930	-.2270	-.2400	.0280	.0880	.0650
120.000			.5850	.2010	-.0410	-.0750	-.1160	-.1070	-.0420	.1790	-.1820	-.1440	-.0060	.1130	.0310
135.000								-.1150		.0770		-.0220		.0310	
150.000			.5500	.1780	-.0550	-.0840	-.1260	-.1180	-.0950	.1490	.1960	.0650	.0410	-.0640	-.0240
165.000				.1690	-.0580	-.0900	-.1270	-.1210	-.0980	.1440	.2750		.0820		-.0830
180.000	1.6570	1.3850	.5320	.1620	-.0580	-.0900	-.1340	-.1200	-.0950	.1420	.2590	.1430	.1120	-.0070	-.1140
270.000		1.4530													

X/LT .7449 .8526 .9290

PHI

.000	.0060	.0160	.0150
30.000	.0140	.0140	.0250
60.000	.0130	.0020	.0560
90.000			.0250
120.000	.0010	.0860	.1310
135.000	.0010	.1440	.0760
150.000	.0400	.1710	-.0080
165.000		.1800	-.0430
180.000	.1340		

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6490	1.5370	.7320	.3300	.0430	-.0110	-.0580	-.0520	-.0350	-.0240	.1470	.0820	.0160	.0010	.0280
30.000			.6550	.2550	.0030	-.0510	-.0900	-.0830	-.0360	.0690	-.0340	.0020	-.0020	-.0330	-.0440
60.000			.5750	.1930	-.0360	-.0670	-.1160	-.1120	-.0560	.2760	.0150	-.0600	-.0400	.0270	.0330
90.000		1.3650	.5160	.1530	-.0620	.0000	-.1380	-.1290	.2190	.1820	-.2190	-.2270	.0830	.0920	.0160
120.000			.4830	.1320	-.0760	-.1050	-.1460	-.1360	.0070	.1930	-.1510	-.0970	.0640	.0550	-.0240
135.000								-.1390		-.0100		-.0050		.0050	
150.000			.4800	.1340	-.0770	-.1050	-.1470	-.1370	-.0400	.1140	.2440	.1190	-.0150	-.1010	-.0590
165.000				.1360	-.0750	-.1000	-.1430	-.1350	-.1070	.1010	.2430		.0250		-.1530
180.000	1.6490	1.3780	.5170	.1500	-.0650	-.0940	-.1390	-.1300	-.0970	.1110	.2610	.1750	.0570	-.0250	-.1050
270.000		1.5440													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK

(RDOT26)

MACH (2) = 2.000

BETAT (5) = 3.950

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0090	.0080	-.0030
30.000	.0000	.0000	-.0020
60.000	-.0210	-.0110	.0340
90.000			.0300
120.000	-.0310	.0350	.0470
135.000	.0080	.0180	-.0160
150.000	.0370	-.0380	-.1290
165.000		-.0190	-.1450
180.000	.0780		

MACH (2) = 2.000

BETAT (6) = 5.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6300	1.5230	.7140	.3210	.0390	-.0170	-.0580	-.0530	-.0420	-.0330	.0850	.0790	.0180	-.0070	.0190
30.000			.6070	.2290	-.0150	-.0660	-.0980	-.0920	-.0630	.1030	.0080	.0340	.0080	-.0330	-.0570
60.000			.5120	.1580	-.0570	-.0860	-.1330	-.1240	-.0810	.2160	.0290	-.0510	-.0290	.0070	.0090
90.000		1.3080	.4620	.1120	-.0860	.0000	-.1460	-.1410	.2120	.1960	-.2160	-.1920	.0250	.0750	-.0280
120.000			.4360	.0950	-.0920	-.1130	-.1500	-.1420	.0070	.1830	-.1320	-.0530	-.0250	.0280	-.0520
135.000								-.1440		-.0160		-.0080		-.0190	
150.000			.4560	.1080	-.0880	-.1110	-.1510	-.1450	-.0780	.1290	.2170	.0790	-.0300	-.1020	-.0690
165.000				.1210	-.0850	-.1090	-.1480	-.1380	-.0660	.1180	.2200		-.0060		-.1590
180.000	1.6300	1.3570	.5080	.1450	-.0740	-.0990	-.1410	-.1240	-.0720	.0920	.2660	.1070	.0220	-.0250	-.0760
270.000		1.5750													

X/LT .7449 .8526 .9290

PHI

.000	-.0060	-.0110	-.0250
30.000	-.0140	-.0160	-.0150
60.000	-.0390	-.0110	.0170
90.000			.0010
120.000	-.0340	.0140	.0200
135.000	-.0090	-.0070	-.0600
150.000	.0020	-.1040	-.0940
165.000		-.0970	-.1300
180.000	-.0710		

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 CCA + S3 + T9 EXTERNAL TANK

MACH (2) = 2.000

BETAT (7) = 8.530

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

X/L T	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6160	1.5060	.6990	.3160	.0440	-.0140	-.0580	-.0540	-.0440	-.0370	.0370	.0450	-.0020	-.0350	.0090
30.000			.5710	.2090	-.0280	-.0770	-.1120	-.1070	-.0770	.1230	.0460	.0410	-.0130	-.0460	-.0540
60.000			.4710	.1310	-.0790	-.1070	-.1470	-.1390	-.0760	.0990	.0540	-.0310	-.0210	-.0360	-.0260
90.000		1.2590	.4300	.0900	-.1020	.0000	-.1630	-.1550	.1710	.1950	-.2140	-.1910	.0960	.0400	-.0950
120.000			.4030	.0810	-.1060	-.1280	-.1630	-.1560	.0380	.1400	-.0710	-.0710	.0210	-.0160	-.0950
135.000								.1540		-.0270		-.0170		-.0380	
150.000			.4230	.0990	-.0950	-.1200	-.1600	-.1350	-.0490	.1040	.2110	.0540	-.0710	-.1260	-.0970
165.000	1.6160	1.3490	.4890	.1130	-.0830	-.1090	-.1470	-.1250	-.0610	.0950	.2030		-.0540		-.1700
180.000		1.6030		.1400	-.0680	-.0960	-.1380	-.1180	-.0780	.0680	.2660	.0050	-.0220	-.0780	-.0710

X/LT	.7449	.8526	.9290
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PHI				
.000	-.0210	-.0300	-.0520	
30.000	-.0340	-.0330	-.0380	
60.000	-.0550	-.0140	.0020	
90.000			-.0220	
120.000	-.0530	-.0010	.0340	
135.000	-.0530	-.0550	-.0170	
150.000	-.0330	-.1010	-.1230	
165.000		-.0670	-.1300	
180.000	-.0540			

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT27) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORDINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.330

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4560	1.4510	.7630	.3340	.0170	-.0510	-.1140	-.1010	-.0740	.0340	.1060	.0080	-.0290	-.0430	.0450
30.000			.8740	.4260	.0890	.0100	-.0620	-.0390	-.0130	.1860	.0050	-.0850	-.0080	.0360	-.0240
60.000			.9090	.4470	.1080	.0410	-.0460	-.0270	.3230	.3490	-.1350	-.1000	.0000	.0630	.0870
90.000		1.4930	.8390	.3880	.0600	.0000	-.0850	-.0720	.5970	-.0570	-.2600	-.1890	-.0070	.0810	.1360
120.000			.7020	.2740	-.0290	-.0800	-.1510	-.1410	.1100	-.0490	-.2780	-.1310	.0220	.1170	.1080
135.000								-.1800		-.0450		-.0250		.1260	
150.000			.5530	.1570	-.1150	-.1580	-.2170	-.2110	-.1360	-.0060	.1350	.0420	-.0400	.0760	.0910
165.000				.1050	-.1500	-.1870	-.2440	-.2350	-.0610	.1850	.1850		-.0700		-.0020
180.000	1.4560	1.1880	.4470	.0740	-.1730	-.2080	-.2610	-.2400	.0230	.1150	.0080	-.0360	-.1380	-.1480	-.1400
270.000		1.1350													

X/LT	.7449	.8526	.9290
PHI			
.000	-.0250	.0460	.0520
30.000	.0270	.0340	.0970
60.000	.0570	.0940	.0670
90.000		-.1420	
120.000	.1050	.3890	.2760
135.000	.0980	.4300	.2870
150.000	.0690	.4750	.2760
165.000		.4490	.2820
180.000	.0360		

MACH (1) = 1.555

BETAT (2) = -6.270

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4850	1.4720	.7730	.3340	.0200	-.0520	-.1140	-.1040	-.0660	.0460	.1410	.0420	-.0200	-.0440	.0580
30.000			.8530	.3960	.0630	-.0080	-.0830	-.0610	-.0330	.1660	.0260	-.0430	-.0050	.0260	-.0270
60.000			.8580	.3940	.0680	.0030	-.0790	-.0600	.2840	.3570	-.1350	-.1090	-.0050	.0570	.0670
90.000		1.4750	.7880	.3330	.0190	.0000	-.1200	-.1040	.5570	-.0650	-.2430	-.1810	-.0180	.0740	.1030
120.000			.6630	.2380	-.0570	-.1080	-.1740	-.1610	.0800	-.0500	-.2790	-.1440	.0070	.0980	.0730
135.000								-.1950		-.0270		-.0110		.0820	
150.000			.5510	.1500	-.1280	-.1690	-.2280	-.2130	-.1690	.0580	.1650	.0280	-.0510	.0330	.0430

(R02727)

BETAT (2) = -6.275

DEPENDENT VARIABLE CF

FBI			
.000	-.0120	-.0290	.0460
30.000	.0210	.0170	.0500
60.000	.0440	.0860	.0550
90.000			-.1560
120.000	.0650	.3570	.2410
135.000	.0640	.3970	.2500
150.000	.0770	.4160	.2550
165.000		.4430	.2010
180.000	-.0080		

BETAT (3) = -4.230

DEPENDENT VARIABLE CP

PHI			
.000	.0010	.0050	.0240
30.000	.0120	.0210	.0750
60.000	.0230	.0700	.0600
90.000			-.1490
120.000	.0660	.3320	.2020
135.000	.0810	.3490	.2050
150.000	.0850	.3490	.2180

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT27)

MACH (1) = 1.555

DETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .4030 .1900

180.000 .0100

MACH (1) = 1.555

DETAT (4) = -.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.5270	1.5050	.7910	.3490	.0290	-.0410	-.1060	-.0900	-.0600	-.0260	.2380	.0860	-.0150	-.0520	.0300
30.000			.7670	.3240	.0140	-.0570	-.1170	-.1020	-.0740	.2060	.0190	.0390	-.0170	-.0270	-.0880
60.000			.6990	.2650	-.0260	-.0790	-.1490	-.1340	.1980	.4190	-.1010	-.1150	-.0080	.0500	.0010
90.000		1.3680	.6190	.1990	-.0810	.0000	-.1900	-.1810	.4490	-.0730	-.3720	-.2680	.0180	.0260	.0180
120.000			.5390	.1340	-.1220	-.1620	-.2170	-.2060	.0450	.0040	-.1910	-.2210	.0320	.0550	-.0420
135.000								-.2180		.1050		-.1100		.0200	
150.000			.5010	.1010	-.1420	-.1800	-.2340	-.2190	.0290	.1190	.1690	-.0230	-.1080	-.0520	.0600
165.000				.0880	-.1500	-.1820	-.2350	-.2220	.0330	.1420	.1780		-.0660		.1640
180.000	1.5270	1.2490	.4820	.0840	-.1530	-.1860	-.2370	-.2240	.0440	.1050	.1920	.1570	-.0570	-.1490	.2070
270.000		1.3760													

X/LT .7449 .8526 .9290

PHI

.000	.0130	.0320	.0300
30.000	.0000	.0260	.0580
60.000	.0320	.0350	.0600
90.000			.0000
120.000	.0540	.2280	.1180
135.000	.0500	.2410	.1120
150.000	.0300	.2190	.1110
165.000		.1470	.0190
180.000	.0410		

AMCS 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT27)

MACH (1) = 1.555

BETAT (5) = 3.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5090	1.4880	.7920	.3570	.0340	-.0370	-.1010	-.0870	-.0620	-.0320	.1990	.0730	-.0160	-.0510	.0410
30.000			.7900	.2790	-.0200	-.0880	-.1460	-.1340	-.0790	.1410	.1330	.0220	-.0580	-.0500	-.0710
60.000			.5930	.1930	-.0860	-.1330	-.1990	-.1840	.1330	.4170	-.0620	-.0580	.0110	.0150	-.0360
90.000	1.2640		.5130	.1230	-.1350	.0000	-.2330	-.2190	.3920	-.0850	-.3600	-.2540	-.0170	-.0730	-.0250
120.000			.4590	.0870	-.1560	-.1910	-.2430	-.2260	.0630	.0730	-.0780	-.1740	.0290	-.0010	-.0480
135.000								-.2290		.1010		-.0630		-.0030	
150.000			.4510	.0800	-.1600	-.1930	-.2410	-.2270	.0510	.1120	.1160	-.0010	-.1550	-.0810	.0700
165.000				.0790	-.1590	-.1890	-.2390	-.2240	.0570	.2040	.0950		-.1140		.0990
180.000	1.5090	1.2270	.4730	.0830	-.1560	-.1880	-.2410	-.2220	.0550	.1820	.0950	.0990	-.0600	-.1600	.0990
270.000		1.4490													

X/LT .7449 .8526 .9290

PHI

.000	.0100	.0130	.0330
30.000	-.0180	.0170	.0280
60.000	.0050	.0150	.0360
90.000			.0200
120.000	.0250	.0750	.0800
135.000	.0180	.0060	.0990
150.000	.0020	-.0730	.0870
165.000		-.1090	-.0930
180.000	.0160		

MACH (1) = 1.555

BETAT (6) = 6.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5000	1.4810	.7900	.3590	.0310	-.0380	-.1050	-.0920	-.0670	.0440	.1310	.0410	-.0170	-.0410	.0440
30.000			.6680	.2490	-.0470	-.1120	-.1640	-.1510	-.1010	.1270	.1320	.0120	-.0640	-.0430	-.0750
60.000			.5540	.1420	-.1100	-.1590	-.2230	-.2080	.0800	.3290	-.0210	-.0310	.0190	-.0040	-.0610
90.000	1.2140		.4740	.0730	-.1510	.0000	-.2460	-.2380	.3380	-.0880	-.3470	-.2320	-.0520	-.1440	-.0490
120.000			.4310	.0510	-.1700	-.2070	-.2530	-.2350	.0380	.0800	-.0220	-.1750	.0040	-.0230	-.0560
135.000								-.2370		.0940		-.0770		-.0230	
150.000			.4310	.0610	-.1690	-.2060	-.2530	-.2360	.0430	.1740	.1230	-.0320	-.1790	-.0940	.0300
165.000				.0680	-.1680	-.2050	-.2520	-.2350	.0320	.2210	.0840		-.1440		.0430
180.000	1.5000	1.2210	.4690	.0860	-.1610	-.1970	-.2500	-.2150	-.0660	.2240	.1420	.0130	-.0740	-.1650	-.1220
270.000		1.4870													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(R03T27)

MACH (1) = 1.555

BETAT (6) = 6.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.7449	.8526	.9290
PHI			
.000	-.0070	-.0110	.0600
30.000	-.0410	.0490	.0760
60.000	.0040	.0730	.0720
90.000			.0460
120.000	.0500	.0990	.0610
135.000	.0340	.0420	.0290
150.000	.0100	-.1030	-.0620
165.000		-.0970	-.1240
180.000	-.0070		

MACH (1) = 1.555

BETAT (7) = 8.090

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3050	.4489	.5027	.5565	.6372
PHI															
.000	1.4810	1.4600	.7690	.3470	.0240	-.0460	-.1080	-.0980	-.0730	.0480	.0790	.0120	-.0160	-.0330	.0410
30.000			.6160	.2140	-.0770	-.1380	-.1860	-.1750	-.1150	.1450	.1090	-.0010	-.0640	-.0530	-.1070
60.000			.4930	.1080	-.1450	-.1870	-.2420	-.2050	.0130	.3360	.0220	-.0060	.0130	-.0330	-.0520
90.000		1.1640	.4260	.0410	-.1750	.0000	-.2660	-.2470	.5360	-.0920	-.3470	-.1970	-.0040	.2000	.0000
120.000			.3900	.0370	-.1870	-.2210	-.2630	-.2400	.0230	.1100	.0050	-.1610	-.0300	-.0330	-.0030
135.000								-.2440		.0640		-.0860		-.0420	
150.000			.3990	.0460	-.1890	-.2180	-.2620	-.2360	.0330	.2030	.1450	-.0560	-.2160	-.1160	.0390
165.000				.0530	-.1810	-.2150	-.2520	-.2250	-.0010	.1700	.0770		-.1830		.0260
180.000	1.4810	1.2080	.4490	.0800	-.1640	-.2020	-.2480	-.2180	-.0380	.1660	.1130	-.0230	-.1340	-.1590	-.1460
270.000		1.5110													

X/LT	.7449	.8526	.9290
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PHI

.000	-.0250	.0450	.0580
30.000	.0540	.0420	.0280
60.000	.0570	.0420	.0340
90.000			.0200
120.000	.0240	.0180	.0390
135.000	.0250	-.0540	-.0230
150.000	.0380	-.1780	-.1160
165.000		-.1470	-.1360
180.000	.0280		

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBO127)

MACH (2) = 2.000

$$\text{BETAT} (1) = -8.300$$

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

[illegible]

X/LT	.7449	.8526	.9290
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FBI

.000	.0000	-.0010	-.0110
30.000	.0420	.0310	.0460
60.000	.0640	.0650	.1060
90.000			.0170
120.000	.1250	.2620	.2860
135.000	.1040	.3200	.2560
150.000	.1110	.2760	.2600
165.000		.6130	.2540
180.000	-.0570		

MACH (2) = 2.000

BETAT (2) = -6,250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CF

[illegible]

X/LT	.7449	.8526	.9297
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PHI

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT27)

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0100	.0120	.0070
30.000	.0370	.0330	.0380
60.000	.0520	.0490	.1010
90.000			.0310
120.000	.0830	.2010	.2640
135.000	.0830	.2790	.2320
150.000	.0710	.2300	.2360
165.000		.5840	.1900
180.000	-.0700		

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6410	1.5810	.7900	.3690	.0850	.0210	-.0350	-.0280	-.0180	.0060	.1850	.1090	.0440	.0050	.0510
30.000			.8250	.4020	.1090	.0450	-.0170	-.0060	.0070	.1990	.0520	.0510	.0280	.0150	-.0210
60.000			.7930	.3840	.0920	.0410	-.0210	-.0110	.0040	.5400	.0020	-.0490	-.0260	.0100	.0640
90.000		1.5290	.7160	.3210	.0500	.0000	-.0510	-.0470	.3280	.1950	-.2100	-.2180	-.1200	.0020	.0070
120.000			.6180	.2420	-.0020	-.0440	-.0930	-.0860	.0130	.0990	-.2400	-.1650	-.0710	.0890	.0520
135.000								-.1060		.0280		-.0830		.0710	
150.000			.5280	.1790	-.0500	-.0840	-.1270	-.1230	-.0910	.0600	.3030	.0420	.0170	-.0040	.0130
165.000				.1470	-.0670	-.0990	-.1390	-.1340	-.0970	.0860	.3110		.0330		-.0470
180.000	1.6410	1.3320	.4710	.1250	-.0760	-.1080	-.1490	-.1430	-.1090	.1010	.2730	.1610	.0350	-.0460	-.1140
270.000		1.3670													

X/LT .7449 .8526 .9290

PHI

.000	.0170	.0230	.0270
30.000	.0310	.0350	.0450
60.000	.0400	.0330	.0890
90.000			.0360
120.000	.0550	.1830	.2300
135.000	.0400	.2570	.1990
150.000	.0340	.3010	.1610
165.000		.4430	.1330
180.000	.0780		

AVES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT27)

MACH (2) = 2.000

BETAT (4) = -.120

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6490	1.5810	.7880	.3820	.0830	.0260	-.0250	-.0190	-.0110	.0150	.1650	.1280	.0710	.0240	.0340
30.000			.7690	.3550	.0660	.0070	-.0380	-.0310	-.0210	.0920	.0700	.0530	.0450	.0160	-.0430
60.000			.7100	.2950	.0300	-.0130	-.0710	-.0590	-.0530	.4410	.0250	-.0440	-.0240	.0060	.0610
90.000		1.4540	.6310	.2310	-.0210	.0000	-.1010	-.0970	.2700	.1800	-.2080	-.2120	-.1330	.0480	.0620
120.000			.5530	.1710	-.0520	-.0810	-.1260	-.1210	-.0170	.1000	-.2300	-.1190	-.0770	.0760	.0340
135.000								-.1290		.0410		-.0380		-.0310	
150.000			.5010	.1350	-.0690	-.0990	-.1420	-.1370	-.1090	.1150	.1830	.0750	.0510	-.0640	-.0150
165.000				.1240	-.0760	-.1010	-.1450	-.1390	-.1070	.1130	.2580		.0620		-.0790
180.000	1.6490	1.3410	.4850	.1240	-.0830	-.1020	-.1460	-.1370	-.1060	.1110	.2640	.0860	.1090	-.0140	-.0930
270.000		1.4490													

X/LT .7449 .8526 .9290

PHI															
.000	.0180	.0270	.0300												
30.000	.0270	.0340	.0280												
60.000	.0270	.0150	.0720												
90.000			.0360												
120.000	.0060	.1180	.1430												
135.000	.0270	.1630	.1080												
150.000	.0590	.1980	.0270												
165.000		.1940	-.0200												
180.000	.1640														

MACH (2) = 2.000

BETAT (5) = 3.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6450	1.5800	.7880	.3700	.0740	.0150	-.0330	-.0270	-.0140	-.0010	.1670	.1060	.0350	.0180	.0580
30.000			.6960	.2860	.0250	-.0320	-.0730	-.0660	-.0180	.1050	-.0080	.0110	.0140	-.0010	-.0320
60.000			.5880	.2060	-.0290	-.0610	-.1100	-.1060	-.0410	.2700	.0640	-.0200	.0020	.0170	.0450
90.000		1.3650	.5040	.1440	-.0700	.0000	-.1430	-.1350	.2190	.1620	-.1990	-.1950	-.0930	.0440	-.0230
120.000			.4590	.1110	-.0920	-.1160	-.1540	-.1460	.0240	.1380	-.1960	-.0700	-.0560	.0390	-.0170
135.000								-.1500		.0020		-.0030		-.0560	
150.000			.4470	.1020	-.0970	-.1200	-.1580	-.1500	.0450	.0800	.1840	.0840	-.0100	-.0950	-.0590
165.000				.1010	-.0950	-.1170	-.1570	-.1480	.0070	.0760	.2430		.0110		-.1540
180.000	1.6450	1.3350	.4760	.1130	-.0910	-.1140	-.1540	-.1440	-.1020	.0780	.2620	.1460	.0440	-.0400	-.0990
270.000		1.5420													

X/LT .7449 .8526 .9290

PHI

AMES 97-757 1A9 02A + S3 + T9 EXTERNAL TANK

(RDOT27)

MACH (2) = 2.000

BETAT (5) = 3.970

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE OF

X/LT .7449 .8526 .9290

PHI

.000	.0210	.0260	.0190
30.000	.0090	.0160	.0010
60.000	-.0080	-.0050	.0370
90.000			.0340
120.000	.0030	.0590	.0600
135.000	.0310	.0360	-.0020
150.000	.0000	-.0150	-.1130
165.000		-.0060	-.1240
180.000	.0030		

MACH (2) = 2.000

BETAT (6) = 6.030

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE OF

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6100	1.5470	.7770	.3710	.0790	.0180	-.0360	-.0300	-.0170	-.0150	.1310	.0830	.0340	.0110	.0510
30.000			.6570	.2650	.0160	-.0400	-.0830	-.0790	-.0340	.1450	.0330	.0560	.0280	-.0050	-.0400
60.000			.5330	.1750	-.0460	-.0800	-.1240	-.1120	-.0450	.1090	.0860	-.0020	.0130	.0250	.0210
90.000		1.2930	.4560	.1130	-.0830	.0000	-.1500	-.1420	.1780	.1700	-.1920	-.1880	-.0770	.0200	-.0590
120.000			.4200	.0870	-.0950	-.1220	-.1570	-.1470	-.0060	.1240	-.1800	.0040	-.0620	.0270	-.0480
135.000								-.1480		.0220		-.0120		-.0570	
150.000			.4170	.0860	-.0980	-.1250	-.1620	-.1470	-.0420	.0930	.2070	.0610	-.0300	-.1110	-.0790
165.000				.0950	-.1010	-.1240	-.1600	-.1430	-.0610	.0940	.2250		-.0030		-.1560
180.000	1.6100	1.3050	.4570	.1110	-.0910	-.1200	-.1540	-.1300	-.0700	.0730	.2640	.0780	.0250	-.0370	-.0670
270.000		1.5570													

X/LT .7449 .8526 .9290

PHI

.000	.0120	.0110	-.0030
30.000	-.0060	-.0020	-.0140
60.000	-.0240	-.0070	.0280
90.000			.0190
120.000	-.0090	.0350	.0260
135.000	.0100	.0020	-.0540
150.000	.0130	-.0730	-.0980
165.000		-.0790	-.1220
180.000	-.0720		

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT27)

MACH (2) = 2.000

BETAT (7) = 8.070

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6010	1.5390	.7610	.3630	.0770	.0150	-.0350	-.0290	-.0190	-.0200	.0430	.0700	.0250	-.0140	.0340
30.000			.6110	.2410	-.0080	-.0620	-.0960	-.0930	-.0580	.1460	.0770	.0510	.0090	-.0200	-.0620
60.000			.4900	.1390	-.0770	-.1010	-.1430	-.1190	-.0590	-.0060	.1010	.0230	.0180	.0200	-.0140
90.000		1.2460	.4140	.0820	-.1090	.0000	-.1680	-.1550	.1330	.1660	-.1860	-.1790	.0510	-.0060	-.1100
120.000			.3850	.0670	-.1170	-.1340	-.1710	-.1620	.0240	.1110	-.1450	-.0420	.0160	-.0110	-.1030
135.000								-.1620		.0100		-.0210		-.0520	
150.000			.3870	.0770	-.1140	-.1360	-.1710	-.1500	-.0410	.0920	.2110	.0050	-.0800	-.1400	-.0910
165.000				.0850	-.1050	-.1280	-.1610	-.1340	-.0580	.0700	.1910		-.0600		-.1640
180.000	1.6010	1.2990	.4390	.1050	-.0940	-.1170	-.1550	-.1320	-.0850	.0530	.2520	-.0350	-.0250	-.1010	-.0660
270.000		1.5940													

X/LT .7449 .8526 .9290

PHI

.000	-.0010	-.0050	-.0270
30.000	-.0240	-.0240	-.0350
60.000	-.0320	-.0090	.0060
90.000			-.0100
120.000	-.0270	.0160	.0410
135.000	-.0430	-.0480	.0060
150.000	-.0300	-.0650	-.1020
165.000		-.0450	-.1180
180.000	-.0650		

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(R0228) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

MACH (1) = 1.555

BETAT (1) = -8.350

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4360	1.4740	.8130	.3790	.0580	-.0180	-.0830	-.0690	-.0470	.0630	.1260	.0320	.0050	-.0100	.0760
30.000			.9230	.4740	.1260	.0480	-.0330	-.0080	.0140	.2360	.0360	-.0390	.0280	.0610	-.0040
60.000			.9370	.4720	.1270	.0570	-.0290	-.0080	.3720	.3950	-.0910	-.0530	.0290	.0750	.1040
90.000		1.4740	.8320	.3770	.0540	.0000	-.0860	-.0790	.5840	-.0740	-.3650	-.2630	-.0690	.0770	.1530
120.000			.6570	.2420	-.0550	-.1030	-.1680	-.1620	.0720	-.1370	-.3150	-.1960	.0280	.1040	.1070
135.000								-.2080		-.1240		-.1890		.1160	
150.000			.5010	.1200	-.1480	-.1860	-.2430	-.2410	-.1370	-.0240	.0360	.0250	-.0590	.0550	.0650
165.000				.0690	-.1780	-.2120	-.2670	-.2570	-.0840	.1200	.1520		-.0580		.0200
180.000	1.4360	1.1280	.3990	.0360	-.1970	-.2280	-.2790	-.2660	-.0160	.1240	.0830	-.0430	-.1000	-.1530	-.1140
270.000		1.1190													

X/LT .7449 .8526 .9290

PHI

.000	-.0060	.0490	.0540
30.000	.0560	.0400	.1140
60.000	.0750	.0960	.1050
90.000			-.1160
120.000	.1430	.4090	.2960
135.000	.1460	.4210	.2950
150.000	.1380	.4270	.3180
165.000		.3910	.3370
180.000	.0590		

MACH (1) = 1.555

BETAT (2) = -6.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4590	1.4950	.8260	.3820	.0560	-.0140	-.0870	-.0700	-.0370	.0740	.1660	.0640	.0110	-.0110	.0930
30.000			.9030	.4420	.1000	.0240	-.0560	-.0320	-.0100	.2040	.0710	.0000	.0280	.0510	.0000
60.000			.8830	.4210	.0850	.0210	-.0630	-.0430	.3340	.4070	-.0860	-.0610	.0270	.0700	.0840
90.000		1.4520	.7750	.3250	.0110	.0000	-.1230	-.1130	.5510	-.0780	-.3470	-.2600	-.0700	.0720	.1140
120.000			.6190	.2040	-.0840	-.1290	-.1930	-.1850	.0540	-.1380	-.3180	-.2050	-.0010	.0970	.0700
135.000								-.2140		-.1090		-.1540		.0870	
150.000			.4900	.1040	-.1550	-.1900	-.2480	-.2420	-.1230	.0290	.0880	-.0050	-.0360	.0130	.0270

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT28)

MACH (1) = 1.555

BETAT (2) = -6.300

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
165.000				.0610	-.1750	-.2100	-.2650	-.2530	-.0210	.1250	.1610		-.0410		-.0410
180.000	1.4590	1.1510	.4090	.0310	-.1990	-.2220	-.2750	-.2540	.0190	.1330	.1240	.0500	-.0430	-.1800	-.1040
270.000		1.1770													

X/LT .7449 .8526 .9290

PHI

.000	.0090	-.0110	.0160
30.000	.0490	.0230	.0690
60.000	.0660	.0830	.0800
90.000			-.1330
120.000	.0970	.3740	.2600
135.000	.1060	.3910	.2610
150.000	.1300	.3840	.2990
165.000		.3630	.3260
180.000	.0100		

MACH (1) = 1.555

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4920	1.5210	.8420	.3860	.0580	-.0140	-.0890	-.0730	-.0420	.0380	.1950	.0920	.0140	-.0060	.0890
30.000			.8760	.4160	.0820	.0030	-.0720	-.0450	-.0250	.2030	.0810	.0270	.0350	.0480	-.0280
60.000			.8250	.3670	.0390	-.0020	-.0880	-.0720	.2790	.4200	-.0800	-.0730	.0230	.0690	.0560
90.000		1.4340	.7140	.2690	-.0170	.0000	-.1480	-.1380	.5180	-.0830	-.3590	-.2670	-.0690	.0620	.0800
120.000			.5830	.1690	-.0990	-.1410	-.2060	-.1980	.0350	-.1360	-.3140	-.1960	.0010	.0800	.0250
135.000								-.2240		-.0750		-.1220		.0600	
150.000			.4820	.0970	-.1640	-.1990	-.2470	-.2390	-.1080	.0540	.1320	-.0530	-.0630	-.0060	.0050
165.000				.0630	-.1800	-.2140	-.2610	-.2460	-.0060	.1420	.1550		-.0140		-.0640
180.000	1.4920	1.1790	.4270	.0430	-.1880	-.2190	-.2700	-.2540	-.0120	.1310	.1160	.0870	-.0450	-.1730	.1100
270.000		1.2540													

X/LT .7449 .8526 .9290

PHI

.000	.0170	.0150	.0220
30.000	.0360	.0250	.0860
60.000	.0440	.0750	.0760
90.000			-.1310
120.000	.1010	.3470	.2220
135.000	.1110	.3610	.2040
150.000	.1120	.3450	.2250

AMES 97-707 IA9 02A + S3 + TO EXTERNAL TANK

(RDOT28)

MACH (1) = 1.555

BETAT (3) = -4.230

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

165.000 .3640 .1980

180.000 .0330

MACH (1) = 1.555

BETAT (4) = -.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000 1.4990 1.5210 .8450 .3940 .0710 -.0040 -.0780 -.0590 -.0320 .0050 .2310 .1050 .0160 -.0080 .0500

30.000 .8070 .3640 .0450 -.0260 -.0930 -.0780 -.0510 .2400 .0690 .0410 .0020 -.0010 -.0430

60.000 .7110 .2830 -.0130 -.0680 -.1410 -.1260 .2320 .4800 -.0510 -.0490 .0180 .0420 .0190

90.000 1.3390 .6010 .1880 -.0830 .0000 -.1950 -.1850 .4570 -.0880 -.3540 -.2980 -.0660 .0310 .0200

120.000 .5060 .1150 -.1360 -.1800 -.2330 -.2180 .0240 -.0820 -.2350 -.2500 .0300 .0550 -.0490

135.000 .4520 .0740 -.1640 -.2010 -.2480 -.2300 .0250 .0730 .1370 -.0400 -.1060 -.0550 .1110

150.000 .0590 -.1670 -.2010 -.2520 -.2340 .0130 .1130 .1750 -.0650 .1480

165.000 1.4990 1.1860 .4340 .0540 -.1700 -.2040 -.2570 -.2360 .0250 .0960 .2570 .1410 -.0560 -.1610 .1860

180.000 1.3520

X/LT .7449 .8526 .9290

PHI

.000 .0270 .0370 .0300

30.000 .0140 .0220 .0590

60.000 .0530 .0500 .0650

90.000 -.0150

120.000 .0670 .2520 .1500

135.000 .0680 .2510 .1420

150.000 .0750 .2370 .1560

165.000 .1540 .1050

180.000 .0740

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2113

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RDOT28)

MACH (1) = 1.555

BETAT (5) = 4.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4860	1.5100	.8440	.4060	.0730	.0020	-.0710	-.0580	-.0330	.0160	.2190	.0990	.0140	-.0110	.0690
30.000			.7390	.3210	.0080	-.0610	-.1240	-.1140	-.0800	.1790	.1560	.0470	-.0180	-.0140	-.0400
60.000			.6050	.2060	-.0750	-.1240	-.1910	-.1800	.1580	.5190	.0020	.0010	.0420	.0210	-.0180
90.000		1.2450	.4980	.1190	-.1380	.0000	-.2390	-.2250	.3640	-.0940	-.3340	-.2670	-.1130	-.0780	-.0410
120.000			.4300	.0670	-.1680	-.2060	-.2550	-.2410	.0440	-.0130	-.1290	-.2000	.0170	.0040	-.0350
135.000								-.2420		.0660		-.0800		-.0190	
150.000			.4120	.0520	-.1720	-.2070	-.2580	-.2400	.0340	.0910	.1030	-.0110	-.1580	-.1120	.1020
165.000				.0450	-.1720	-.2050	-.2570	-.2390	.0220	.1510	.1080		-.0910		.1300
180.000	1.4860	1.1750	.4300	.0470	-.1720	-.2040	-.2540	-.2400	.0150	.1680	.1170	.1310	-.0110	-.1840	.1520
270.000		1.4300													

X/LT .7449 .8526 .9290

PHI

.000	.0280	.0230	.0270
30.000	-.0100	.0150	.0320
60.000	.0090	.0300	.0420
90.000			.0170
120.000	.0480	.0940	.0970
135.000	.0480	.0270	.1100
150.000	.0330	-.0610	.0680
165.000		-.0870	-.0890
180.000	.0530		

MACH (1) = 1.555

BETAT (6) = 6.060

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.4710	1.4980	.8410	.4030	.0690	-.0050	-.0750	-.0610	-.0370	.0660	.1580	.0730	.0130	-.0080	.0790
30.000			.7070	.2800	-.0200	-.0880	-.1440	-.1330	-.0960	.1520	.1480	.0370	-.0230	-.0070	-.0600
60.000			.5570	.1480	-.1070	-.1530	-.2150	-.2010	.0450	.3950	.0320	.0250	.0450	.0060	-.0320
90.000		1.1940	.4570	.0680	-.1620	.0000	-.2580	-.2490	.3570	-.1090	-.3240	-.2350	-.1400	-.1360	-.0560
120.000			.3980	.0360	-.1860	-.2170	-.2650	-.2460	.0130	.0000	-.0890	-.1550	.0060	-.0260	-.0030
135.000								-.2470		.0680		-.0980		-.0390	
150.000			.3940	.0340	-.1880	-.2190	-.2650	-.2460	.0260	.1390	.0810	-.0250	-.1790	-.1150	.0570
165.000				.0400	-.1890	-.2180	-.2660	-.2490	.0160	.1890	.0800		-.1130		.0650
180.000	1.4710	1.1590	.4250	.0540	-.1870	-.2180	-.2620	-.2430	.0150	.1550	.1620	.0670	-.0380	-.1680	-.0750
270.000		1.4600													

X/LT .7449 .8526 .9290

PHI

AVCS 97-707 1A9 DDA + 83 + 12 EXTERNAL TANK

(RDOT28)

MACH (1) = 1.555

DEYAT (5) = 6.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0130	.0040	.0220
30.000	-.0000	.0150	.0020
60.000	.0030	.0840	.0700
90.000			.0470
120.000	.0750	.1000	.0600
135.000	.0820	.0000	.0440
150.000	.0670	-.1150	-.0300
165.000		-.1150	-.1160
180.000	.0290		

MACH (1) = 1.555

DEYAT (7) = 6.130

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0000 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.4550	1.4750	.8200	.0980	.0640	-.0110	-.0790	-.0660	-.0410	.0830	.1010	.0410	.0180	-.0010	.0770
30.000			.0260	.2480	-.0490	-.1150	-.1680	-.1540	-.1140	.1680	.1270	.0210	-.0240	-.0210	-.0830
60.000			.0000	.1170	-.1530	-.1790	-.2380	-.2030	.0320	.3100	.0820	.0500	.0310	-.0210	-.0280
90.000		1.1410	.4100	.0000	-.1070	.0000	-.2720	-.2570	.3490	-.1170	-.3140	-.2070	-.1470	-.1870	.0470
120.000			.3050	.0000	-.0000	-.2280	-.2700	-.2480	.0040	.0160	-.0170	-.1470	-.0230	-.0110	.0580
135.000								-.2400		.1010		-.1130		-.0520	
150.000			.3620	.0170	-.0110	-.2230	-.0720	-.2490	.0260	.1070	.1170	-.0530	-.2220	-.1290	.0790
165.000				.0010	-.0370	-.2230	-.2700	-.2440	-.0100	.1980	.0820		-.1710		.0790
180.000	1.4550	1.1490	.4050	.0000	-.0110	-.0010	-.2600	-.2450	-.0260	.1560	.1130	-.0110	-.1130	-.1560	-.1300
270.000		1.4830													

X/LT .7449 .8526 .9290

PHI

.000	-.0030	.0620	.0570
30.000	.0600	.0380	.0240
60.000	.0730	.0500	.0410
90.000			.0280
120.000	.0450	.0280	.0410
135.000	.0530	-.0420	-.0110
150.000	.0840	-.1920	-.1040
165.000		-.1560	-.1260
180.000	.0620		

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT28)

MACH (2) = 2.000

BETAT (1) = -8.320

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.5800	1.5800	.8250	.4040	.1050	.0430	-.0090	-.0050	-.0040	-.0020	.1010	.0860	.0460	.0190	.0800
30.000			.9310	.4800	.1640	.0940	.0340	.0450	.0480	.2300	.1450	.0480	.0320	.0590	.0120
60.000			.9300	.4820	.1600	.1090	.0350	.0410	.0630	.5840	.0400	.0090	.0390	.0630	.0920
90.000	1.5700		.8250	.3920	.0970	.0500	-.0100	-.0120	.3940	.1920	-.1880	-.1790	-.1330	.0240	.0600
120.000			.6590	.2650	.0080	-.0280	-.0810	-.0790	.0290	.0370	-.2710	-.2400	-.1240	.0700	.0540
135.000								-.1140		.0070		-.1290		.0830	
150.000			.4960	.1500	-.0720	-.0990	-.1420	-.1360	-.1150	-.0330	-.0540	.0860	.0150	.0190	.0940
165.000				.1040	-.1020	-.1240	-.1460	-.1290	-.0880	.0490	.2660		-.0460		.0520
180.000	1.5800	1.2430	.3960	.0710	-.1160	-.1340	-.1360	-.1320	-.0630	.0340	.2170	-.0530	-.0080	-.0980	-.0630
270.000		1.2350													

X/LT .7449 .8526 .9290

PHI

.000	.0280	.0250	.0150
30.000	.0690	.0640	.0740
60.000	.0790	.0770	.1260
90.000			.0470
120.000	.1240	.3160	.3250
135.000	.1240	.3410	.3050
150.000	.1150	.2940	.2980
165.000		.6030	.2990
180.000	-.0610		

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0000	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6060	1.6020	.8390	.4150	.1120	.0480	-.0120	-.0070	.0070	.0150	.1820	.1010	.0380	.0290	.0870
30.000			.9090	.4610	.1500	.0810	.0150	.0320	.0420	.2350	.1210	.0670	.0530	.0490	.0040
60.000			.8820	.4390	.1400	.0860	.0130	.0170	.0340	.6070	.0460	.0020	.0200	.0500	.0790
90.000	1.5530		.7710	.3490	.0800	.0000	-.0370	-.0320	.3700	.1830	-.1860	-.1820	-.1450	.0270	.0610
120.000			.6200	.2390	-.0010	-.0450	-.0980	-.0910	.0160	.0290	-.2750	-.2520	-.1390	.0530	.0440
135.000								-.1250		.0030		-.1530		.0630	
150.000			.4880	.1430	-.0710	-.1030	-.1450	-.1400	-.1110	-.0100	.0390	.0420	-.0140	.0080	.0480
165.000				.1050	-.0920	-.1230	-.1600	-.1390	-.0860	.0550	.2460		.0270		-.0030
180.000	1.6060	1.2660	.4100	.0820	-.1030	-.1330	-.1680	-.1370	-.0630	.0580	.2690	.0240	.0000	-.0620	-.0880
270.000		1.2960													

X/LT .7449 .8526 .9290

PHI

AMES 97-707 IAS Q2A + S3 + T9 EXTERNAL TANK

(RDOT2R)

MACH (2) = 2.000

BETAT (2) = -6.260

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0330	.0330	.0320
30.000	.0580	.0630	.0670
60.000	.0600	.0640	.1170
90.000			.0580
120.000	.0830	.2520	.2760
135.000	.0820	.3030	.2580
150.000	.0770	.2490	.2540
165.000		.6130	.2470
180.000	-.0710		

MACH (2) = 2.000

BETAT (3) = -4.210

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0462 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6230	1.6110	.8420	.4190	.1180	.0550	-.0070	-.0020	.0080	.0270	.1780	.1310	.0730	.0430	.0800
30.000			.8690	.4440	.1400	.0700	.0110	.0170	.0320	.2450	.0540	.0030	.0620	.0490	.0010
60.000			.8140	.4020	.1060	.0560	-.0060	.0050	.0110	.6140	.0470	-.0090	.0130	.0400	.0770
90.000		1.5130	.7040	.3110	.0470	.0000	-.0540	-.0530	.3420	.1760	-.1870	-.1630	-.1480	.0410	.0040
120.000			.5770	.2130	-.0210	-.0570	-.1030	-.1030	-.0100	.0250	-.2700	-.2510	-.1180	.0650	.0430
135.000								-.1290		.0020		-.1320		.0580	
150.000			.4740	.1300	-.0720	-.1010	-.1440	-.1410	-.1170	.0290	.1370	.0190	.0170	-.0110	.0130
165.000				.1120	-.0800	-.1170	-.1540	-.1480	-.1020	.0730	.2110		.0300		-.0410
180.000	1.6230	1.2800	.4230	.0920	-.0980	-.1250	-.1620	-.1540	-.0880	.1120	.2020	.1040	.0340	-.0470	-.1050
270.000		1.3530													

X/LT .7449 .8526 .9290

PHI

.000	.0410	.0450	.0530
30.000	.0550	.0630	.0680
60.000	.0580	.0520	.1050
90.000			.0530
120.000	.0590	.2480	.2580
135.000	.0500	.2920	.2300
150.000	.0360	.3340	.1770
165.000		.4610	.1620
180.000	.0950		

DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2117

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK

(RDOT28)

MACH (2) = 2.000

BETAT (4) = -.110

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6340	1.6130	.8480	.4240	.1150	.0510	.0040	.0090	.0190	.0500	.1910	.1430	.0960	.0510	.0720
30.000			.8180	.3830	.0910	.0270	-.0170	-.0090	.0070	.1250	.0790	.0830	.0660	.0440	-.0150
60.000			.7240	.3090	.0350	-.0010	-.0610	-.0520	-.0390	.4420	.0710	.0010	.0170	.0360	.0830
90.000		1.4450	.6080	.2180	-.0230	.0000	-.1020	-.0980	.2920	.1570	-.1840	-.1770	-.1230	.0080	.0670
120.000			.5090	.1400	-.0690	-.0940	-.1350	-.1300	-.0290	.0250	-.2590	-.2450	-.0860	.0580	.0090
135.000								-.1400		.0150		-.0240		.0430	
150.000			.4530	.0970	-.0970	-.1170	-.1550	-.1440	-.1030	.0930	.1910	.0610	.0010	-.1010	-.0210
165.000				.0870	-.0990	-.1180	-.1550	-.1470	.0150	.0650	.2400		.0440		-.0780
180.000	1.6340	1.2920	.4330	.0840	-.1020	-.1180	-.1550	-.1450	.0320	.0820	.2790	.0060	.0880	-.0150	-.1330
270.000		1.4380													

X/LT .7449 .8526 .9290

PHI

.000	.0430	.0480	.0520
30.000	.0500	.0520	.0460
60.000	.0400	.0350	.0880
90.000			.0580
120.000	.0250	.1390	.1680
135.000	.0130	.1950	.1180
150.000	.1010	.2160	.0600
165.000		.2110	.0150
180.000	.1770		

MACH (2) = 2.000

BETAT (5) = 3.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0009	.0452	.1098	.1744	.1905	.2121	.2336	.2874	.3412	.3950	.4489	.5027	.5565	.6372
PHI															
.000	1.6250	1.6060	.8460	.4140	.1130	.0470	-.0070	-.0030	.0120	.0300	.1880	.1240	.0630	.0430	.0880
30.000			.7390	.3220	.0540	-.0070	-.0550	-.0490	.0010	.1400	.0380	.0460	.0500	.0330	-.0070
60.000			.6020	.2210	-.0200	-.0550	-.1060	-.1000	-.0240	.1600	.1140	.0310	.0470	.0530	.0590
90.000		1.3430	.4940	.1410	-.0750	.0000	-.1470	-.1410	.1900	.1390	-.1690	-.1610	-.1340	-.0020	-.0440
120.000			.4270	.0900	-.1020	-.1280	-.1660	-.1560	-.0270	.0640	-.2270	-.1370	-.0700	.0400	-.0210
135.000								-.1580		.0160		.0600		-.0640	
150.000			.4050	.0780	-.1140	-.1350	-.1670	-.1560	.0310	.0720	.1610	.0450	-.0070	-.1120	-.0640
165.000				.0740	-.1120	-.1320	-.1670	-.1560	.0260	.0670	.2150		.0310		-.1580
180.000	1.6250	1.2770	.4230	.0810	-.1070	-.1290	-.1660	-.1450	-.0610	.0750	.2380	.1050	.0510	-.0480	-.0990
270.000		1.5270													

X/LT .7449 .8526 .9290

PHI

AMES 97-757 IA9 02A + S3 + T9 EXTERNAL TANK

(RDOT28)

MACH (2) = 2.000

DETAT (5) = 3.990

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .7449 .8526 .9290

PHI

.000	.0440	.0460	.0450
30.000	.0240	.0350	.0220
60.000	.0140	.0170	.0460
90.000			.0450
120.000	.0470	.0860	.0680
135.000	.0470	.0580	.0100
150.000	.0760	.0150	-.0950
165.000		.0050	-.0930
180.000	.0960		

MACH (2) = 2.000

DETAT (6) = 6.050

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0000 .0009 .0452 .1098 .1744 .1905 .2121 .2336 .2874 .3412 .3950 .4489 .5027 .5565 .6372

PHI

.000	1.6000	1.5800	.6090	.4180	.1090	.0450	-.0100	-.0060	.0060	.0150	.1240	.1090	.0480	.0340	.0860
30.000			.6800	.2940	.0280	-.0260	-.0670	-.0630	-.0210	.1710	.0800	.0820	.0500	.0230	-.0160
60.000			.5410	.1730	-.0460	-.0760	-.1230	-.1060	-.0360	.0470	.1290	.0490	.0550	.0600	.0410
90.000		1.2820	.4400	.1010	-.0980	.0000	-.1550	-.1480	.1590	.1390	-.1640	-.1530	-.1170	.0490	-.0850
120.000			.3810	.0620	-.1160	-.1320	-.1660	-.1570	-.0310	.0580	-.2150	-.0700	.0090	.0200	-.0730
135.000								-.1570		.0350		-.0250		-.0300	
150.000			.3810	.0560	-.1100	-.1370	-.1700	-.1570	-.0110	.0830	.1900	.0300	-.0340	-.1180	-.0680
165.000				.0610	-.1210	-.1350	-.1700	-.1520	-.0400	.0700	.2040		-.0060		-.1520
180.000	1.6000	1.2620	.4090	.0760	-.1170	-.1350	-.1560	-.1460	-.0550	.0540	.2330	.0610	.0250	-.0480	-.0640
270.000		1.5500													

X/LT .7449 .8526 .9290

PHI

.000	.0410	.0380	.0250
30.000	.0130	.0210	.0080
60.000	-.0050	.0190	.0390
90.000			.0170
120.000	.0270	.0690	.0440
135.000	.0280	.0310	-.0310
150.000	.0290	-.0390	-.1100
165.000		-.0540	-.1010
180.000	-.0560		

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK BASE

(RDOY01) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	ALPHAT(1) = -8.400	X/LT	.977	1.000
		PHI		
		.000	-.2520	-.2060
		90.000	-.2590	
		180.000	-.2220	
MACH (1) = 1.555	ALPHAT(2) = -6.330	X/LT	.977	1.000
		PHI		
		.000	-.2230	-.1870
		90.000	-.2320	
		180.000	-.1960	
MACH (1) = 1.555	ALPHAT(3) = -4.250	X/LT	.977	1.000
		PHI		
		.000	-.1900	-.1660
		90.000	-.1990	
		180.000	-.1690	
MACH (1) = 1.555	ALPHAT(4) = -2.190	X/LT	.977	1.000
		PHI		
		.000	-.1710	-.1460
		90.000	-.1910	
		180.000	-.1570	
MACH (1) = 1.555	ALPHAT(5) = -.120	X/LT	.977	1.000
		PHI		
		.000	-.1610	-.1280
		90.000	-.1660	
		180.000	-.1420	
MACH (1) = 1.555	ALPHAT(6) = 1.950	X/LT	.977	1.000
		PHI		
		.000	-.1280	-.1080
		90.000	-.1420	
		180.000	-.1310	
MACH (1) = 1.555	ALPHAT(7) = 4.010	X/LT	.977	1.000
		PHI		
		.000	-.1020	-.0830
		90.000	-.1200	
		180.000	-.1150	

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2121

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY01)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 ALPHAT(8) = 6.060	X/LT .977 1.000
	PHI
	.000 -.0910 -.0670
	90.000 -.1030
	180.000 -.1000
MACH (1) = 1.555 ALPHAT(9) = 8.130	X/LT .977 1.000
	PHI
	.000 -.0600 -.0540
	90.000 -.0990
	180.000 -.0880
MACH (2) = 2.000 ALPHAT(1) = -8.360	X/LT .977 1.000
	PHI
	.000 -.1780 -.1690
	90.000 -.1800
	180.000 -.1750
MACH (2) = 2.000 ALPHAT(2) = -6.310	X/LT .977 1.000
	PHI
	.000 -.1700 -.1570
	90.000 -.1710
	180.000 -.1630
MACH (2) = 2.000 ALPHAT(3) = -4.250	X/LT .977 1.000
	PHI
	.000 -.1580 -.1450
	90.000 -.1610
	180.000 -.1500
MACH (2) = 2.000 ALPHAT(4) = -2.210	X/LT .977 1.000
	PHI
	.000 -.1390 -.1310
	90.000 -.1480
	180.000 -.1380
MACH (2) = 2.000 ALPHAT(5) = -.160	X/LT .977 1.000
	PHI
	.000 -.1400 -.1200
	90.000 -.1420
	180.000 -.1270
MACH (2) = 2.000 ALPHAT(6) = 1.890	X/LT .977 1.000
	PHI
	.000 -.1030 -.0990
	90.000 -.1260
	180.000 -.1060

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY01)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 ALPHAT (7) = 3.930	X/LT .977 1.000
	PHI
	.000 -.0850 -.0790
	90.000 -.1150
	180.000 -.0880
MACH (2) = 2.000 ALPHAT (8) = 5.980	X/LT .977 1.000
	PHI
	.000 -.0840 -.0600
	90.000 -.0940
	180.000 -.0800
MACH (2) = 2.000 ALPHAT (9) = 8.020	X/LT .977 1.000
	PHI
	.000 -.0600 -.0400
	90.000 -.0730
	180.000 -.0730

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2123

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY02) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 DREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.140	X/LT	.977	1.000
		PHI		
		.000	-.0940	-.0670
		90.000	-.1200	
		180.000	-.0830	
MACH (1) = 1.555	BETAT (2) = -5.100	X/LT	.977	1.000
		PHI		
		.000	-.0690	-.0440
		90.000	-.0780	
		180.000	-.0830	
MACH (1) = 1.555	BETAT (3) = -3.050	X/LT	.977	1.000
		PHI		
		.000	-.0750	-.0370
		90.000	-.0610	
		180.000	-.0760	
MACH (1) = 1.555	BETAT (4) = 5.110	X/LT	.977	1.000
		PHI		
		.000	-.0710	-.0450
		90.000	-.0820	
		180.000	-.0800	
MACH (1) = 1.555	BETAT (5) = 7.140	X/LT	.977	1.000
		PHI		
		.000	-.0950	-.0670
		90.000	-.0820	
		180.000	-.0940	
MACH (1) = 1.555	BETAT (6) = 9.190	X/LT	.977	1.000
		PHI		
		.000	-.1360	-.1040
		90.000	-.1260	
		180.000	-.1290	
MACH (2) = 2.000	BETAT (1) = -8.320	X/LT	.977	1.000
		PHI		
		.000	-.0670	-.0500
		90.000	-.0870	
		180.000	-.0690	

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK BASE

(RBOYD2)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (2) = -6.270	X/LT .977 1.000
	PHI
	.000 -.0770 -.0620
	90.000 -.0880
	180.000 -.0830
MACH (2) = 2.000 BETAT (3) = -4.210	X/LT .977 1.000
	PHI
	.000 -.0770 -.0620
	90.000 -.0850
	180.000 -.0840
MACH (2) = 2.000 BETAT (4) = 3.990	X/LT .977 1.000
	PHI
	.000 -.0810 -.0700
	90.000 -.0820
	180.000 -.0970
MACH (2) = 2.000 BETAT (5) = 6.060	X/LT .977 1.000
	PHI
	.000 -.0950 -.0820
	90.000 -.0910
	180.000 -.0970
MACH (2) = 2.000 BETAT (6) = 8.120	X/LT .977 1.000
	PHI
	.000 -.0880 -.0770
	90.000 -.0780
	180.000 -.0910

DATE 25 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2125

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY03) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.120	X/LT	.977	1.000
		PHI		
		.000	-.1020	-.0760
		90.000	-.1430	
		180.000	-.0960	
MACH (1) = 1.555	BETAT (2) = -5.070	X/LT	.977	1.000
		PHI		
		.000	-.0760	-.0510
		90.000	-.0950	
		180.000	-.0940	
MACH (1) = 1.555	BETAT (3) = -3.050	X/LT	.977	1.000
		PHI		
		.000	-.0890	-.0510
		90.000	-.0780	
		180.000	-.0860	
MACH (1) = 1.555	BETAT (4) = 5.080	X/LT	.977	1.000
		PHI		
		.000	-.0820	-.0570
		90.000	-.0970	
		180.000	-.1030	
MACH (1) = 1.555	BETAT (5) = 7.110	X/LT	.977	1.000
		PHI		
		.000	-.1060	-.0830
		90.000	-.0920	
		180.000	-.1090	
MACH (1) = 1.555	BETAT (6) = 9.140	X/LT	.977	1.000
		PHI		
		.000	-.1440	-.1170
		90.000	-.1300	
		180.000	-.1430	
MACH (2) = 2.000	BETAT (1) = -8.300	X/LT	.977	1.000
		PHI		
		.000	-.0880	-.0710
		90.000	-.1070	
		180.000	-.0890	

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY03)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (2) = -6.250	X/LT .977 1.000
	PHI
	.000 -.0930 -.0770
	90.000 -.1020
	180.000 -.0990
MACH (2) = 2.000 BETAT (3) = -4.200	X/LT .977 1.000
	PHI
	.000 -.0810 -.0650
	90.000 -.0860
	180.000 -.0880
MACH (2) = 2.000 BETAT (4) = 3.970	X/LT .977 1.000
	PHI
	.000 -.0930 -.0840
	90.000 -.1000
	180.000 -.1100
MACH (2) = 2.000 BETAT (5) = 6.030	X/LT .977 1.000
	PHI
	.000 -.1060 -.0970
	90.000 -.1060
	180.000 -.1140
MACH (2) = 2.000 BETAT (6) = 8.080	X/LT .977 1.000
	PHI
	.000 -.1070 -.0960
	90.000 -.0950
	180.000 -.1130

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2127

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK BASE

(RBOY04) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.090	X/LT	.977	1.000
		PHI		
		.000	-.1170	-.0910
		90.000	-.1450	
		180.000	-.1100	
MACH (1) = 1.555	BETAT (2) = -5.070	X/LT	.977	1.000
		PHI		
		.000	-.0860	-.0600
		90.000	-.1030	
		180.000	-.1040	
MACH (1) = 1.555	BETAT (3) = -3.040	X/LT	.977	1.000
		PHI		
		.000	-.1110	-.0670
		90.000	-.1040	
		180.000	-.0920	
MACH (1) = 1.555	BETAT (4) = 5.060	X/LT	.977	1.000
		PHI		
		.000	-.1040	-.0710
		90.000	-.1030	
		180.000	-.1170	
MACH (1) = 1.555	BETAT (5) = 7.080	X/LT	.977	1.000
		PHI		
		.000	-.1250	-.0900
		90.000	-.1140	
		180.000	-.1240	
MACH (1) = 1.555	BETAT (6) = 9.100	X/LT	.977	1.000
		PHI		
		.000	-.1600	-.1290
		90.000	-.1390	
		180.000	-.1530	
MACH (2) = 2.000	BETAT (1) = -8.270	X/LT	.977	1.000
		PHI		
		.000	-.1100	-.0870
		90.000	-.1190	
		180.000	-.1030	

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK BASE

(RBOYD4)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (2) = -6.240	X/LT	.977	1.000
	PHI		
	.000	-.1080	-.0900
	90.000	-.1150	
	180.000	-.1100	
MACH (2) = 2.000 BETAT (3) = -4.200	X/LT	.977	1.000
	PHI		
	.000	-.0910	-.0760
	90.000	-.0940	
	180.000	-.0970	
MACH (2) = 2.000 BETAT (4) = 3.950	X/LT	.977	1.000
	PHI		
	.000	-.1100	-.0940
	90.000	-.1080	
	180.000	-.1150	
MACH (2) = 2.000 BETAT (5) = 5.990	X/LT	.977	1.000
	PHI		
	.000	-.1190	-.1030
	90.000	-.1210	
	180.000	-.1230	
MACH (2) = 2.000 BETAT (6) = 8.030	X/LT	.977	1.000
	PHI		
	.000	-.1180	-.1060
	90.000	-.1130	
	180.000	-.1310	

DATE 25 SEP 73

LABULATED PRESSURE DATA - 1A9B

PAGE 2129

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOYD5) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (1) = -7.100	X/LT .977 1.000 PHI .000 -.1520 -.1110 90.000 -.1280 180.000 -.1360
MACH (1) = 1.555 BETAT (2) = -5.070	X/LT .977 1.000 PHI .000 -.1190 -.0860 90.000 -.0930 180.000 -.1180
MACH (1) = 1.555 BETAT (3) = -3.050	X/LT .977 1.000 PHI .000 -.1250 -.0770 90.000 -.1320 180.000 -.1110
MACH (1) = 1.555 BETAT (4) = 5.050	X/LT .977 1.000 PHI .000 -.1310 -.0890 90.000 -.1220 180.000 -.1240
MACH (1) = 1.555 BETAT (5) = 7.070	X/LT .977 1.000 PHI .000 -.1550 -.1170 90.000 -.1410 180.000 -.1450
MACH (1) = 1.555 BETAT (6) = 9.090	X/LT .977 1.000 PHI .000 -.1850 -.1440 90.000 -.1630 180.000 -.1640
MACH (2) = 2.000 BETAT (1) = -8.280	X/LT .977 1.000 PHI .000 -.1180 -.1010 90.000 -.1220 180.000 -.1120

AMES 97-707 1A9 CCA + S3 + T9 EXTERNAL TANK BASE

(RBOY05)

SECTION (1)EXTERNAL TANK BASE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (2) = -6.250	X/LT	.977 1.000
		FHI	
		.000	-.1130 -.0990
		90.000	-.1210
		180.000	-.1170
MACH (2) = 2.000	BETAT (3) = -4.140	X/LT	.977 1.000
		FHI	
		.000	-.1120 -.0950
		90.000	-.1040
		180.000	-.1140
MACH (2) = 2.000	BETAT (4) = 3.940	X/LT	.977 1.000
		FHI	
		.000	-.1160 -.1000
		90.000	-.1140
		180.000	-.1200
MACH (2) = 2.000	BETAT (5) = 5.980	X/LT	.977 1.000
		FHI	
		.000	-.1290 -.1150
		90.000	-.1300
		180.000	-.1320
MACH (2) = 2.000	BETAT (6) = 8.020	X/LT	.977 1.000
		FHI	
		.000	-.1330 -.1190
		90.000	-.1400
		180.000	-.1380

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2131

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY06) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	X/LT	.977	1.000
		PHI		
		.000	-.1610	-.1280
		90.000	-.1360	
		180.000	-.1550	
MACH (1) = 1.555	BETAT (2) = -5.080	X/LT	.977	1.000
		PHI		
		.000	-.1440	-.0990
		90.000	-.1320	
		180.000	-.1150	
MACH (1) = 1.555	BETAT (3) = -3.060	X/LT	.977	1.000
		PHI		
		.000	-.1440	-.1090
		90.000	-.1280	
		180.000	-.1380	
MACH (1) = 1.555	BETAT (4) = 5.050	X/LT	.977	1.000
		PHI		
		.000	-.1380	-.1030
		90.000	-.1410	
		180.000	-.1390	
MACH (1) = 1.555	BETAT (5) = 7.060	X/LT	.977	1.000
		PHI		
		.000	-.1700	-.1410
		90.000	-.1630	
		180.000	-.1660	
MACH (1) = 1.555	BETAT (6) = 9.090	X/LT	.977	1.000
		PHI		
		.000	-.1990	-.1640
		90.000	-.1850	
		180.000	-.1810	
MACH (2) = 2.000	BETAT (1) = -8.290	X/LT	.977	1.000
		PHI		
		.000	-.1300	-.1220
		90.000	-.1390	
		180.000	-.1300	

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY06)

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.250

X/LT	.977	1.000
PHI		
.000	-.1310	-.1230
90.000	-.1370	
180.000	-.1360	

MACH (2) = 2.000 BETAT (3) = -4.130

X/LT	.977	1.000
PHI		
.000	-.1330	-.1180
90.000	-.1320	
180.000	-.1310	

MACH (2) = 2.000 BETAT (4) = 3.950

X/LT	.977	1.000
PHI		
.000	-.1320	-.1200
90.000	-.1330	
180.000	-.1400	

MACH (2) = 2.000 BETAT (5) = 5.980

X/LT	.977	1.000
PHI		
.000	-.1430	-.1330
90.000	-.1520	
180.000	-.1510	

DATE 25 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2133

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY07) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.110
 X/LT .977 1.000
 PHI
 .000 -.1820 -.1470
 90.000 -.1640
 180.000 -.1630

MACH (1) = 1.555 BETAT (2) = -5.090
 X/LT .977 1.000
 PHI
 .000 -.1570 -.1230
 90.000 -.1450
 180.000 -.1400

MACH (1) = 1.555 BETAT (3) = -3.070
 X/LT .977 1.000
 PHI
 .000 -.1730 -.1300
 90.000 -.1630
 180.000 -.1500

MACH (1) = 1.555 BETAT (4) = 5.040
 X/LT .977 1.000
 PHI
 .000 -.1600 -.1260
 90.000 -.1610
 180.000 -.1430

MACH (1) = 1.555 BETAT (5) = 7.060
 X/LT .977 1.000
 PHI
 .000 -.1810 -.1460
 90.000 -.1800
 180.000 -.1720

MACH (1) = 1.555 BETAT (6) = 9.080
 X/LT .977 1.000
 PHI
 .000 -.2150 -.1820
 90.000 -.2010
 180.000 -.2010

MACH (2) = 2.000 BETAT (1) = -8.310
 X/LT .977 1.000
 PHI
 .000 -.1620 -.1450
 90.000 -.1640
 180.000 -.1530

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY07)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (2) = -6.260	X/LT .977 1.000
	PHI
	.000 -.1730 -.1530
	90.000 -.1690
	180.000 -.1650
MACH (2) = 2.000 BETAT (3) = -4.230	X/LT .977 1.000
	PHI
	.000 -.1610 -.1440
	90.000 -.1540
	180.000 -.1620
MACH (2) = 2.000 BETAT (4) = 3.940	X/LT .977 1.000
	PHI
	.000 -.1630 -.1460
	90.000 -.1600
	180.000 -.1640
MACH (2) = 2.000 BETAT (5) = 5.970	X/LT .977 1.000
	PHI
	.000 -.1730 -.1560
	90.000 -.1710
	180.000 -.1730
MACH (2) = 2.000 BETAT (6) = 8.010	X/LT .977 1.000
	PHI
	.000 -.1700 -.1550
	90.000 -.1750
	180.000 -.1670

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2135

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY08) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 DREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.130	X/LT	.977	1.000
	PHI		
	.000	-.2240	-.1870
	90.000	-.1950	
	180.000	-.2120	
MACH (1) = 1.555 BETAT (2) = -6.150	X/LT	.977	1.000
	PHI		
	.000	-.1940	-.1470
	90.000	-.1760	
	180.000	-.1700	
MACH (1) = 1.555 BETAT (3) = -3.070	X/LT	.977	1.000
	PHI		
	.000	-.1850	-.1510
	90.000	-.1730	
	180.000	-.1600	
MACH (1) = 1.555 BETAT (4) = 5.030	X/LT	.977	1.000
	PHI		
	.000	-.1910	-.1480
	90.000	-.1860	
	180.000	-.1510	
MACH (1) = 1.555 BETAT (5) = 7.050	X/LT	.977	1.000
	PHI		
	.000	-.2140	-.1650
	90.000	-.2020	
	180.000	-.1900	
MACH (1) = 1.555 BETAT (6) = 9.070	X/LT	.977	1.000
	PHI		
	.000	-.2120	-.1940
	90.000	-.2160	
	180.000	-.2170	
MACH (2) = 2.000 BETAT (1) = -8.310	X/LT	.977	1.000
	PHI		
	.000	-.1670	-.1660
	90.000	-.1770	
	180.000	-.1770	

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK BASE

(RBOY08)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (2) = -6.270	X/LT	.977	1.000
	PHI		
	.000	-.1940	-.1730
	90.000	-.1830	
	180.000	-.1780	
MACH (2) = 2.000 BETAT (3) = -4.230	X/LT	.977	1.000
	PHI		
	.000	-.1760	-.1600
	90.000	-.1620	
	180.000	-.1740	
MACH (2) = 2.000 BETAT (4) = 3.920	X/LT	.977	1.000
	PHI		
	.000	-.1790	-.1590
	90.000	-.1750	
	180.000	-.1750	
MACH (2) = 2.000 BETAT (5) = 5.960	X/LT	.977	1.000
	PHI		
	.000	-.1990	-.1800
	90.000	-.1960	
	180.000	-.1950	
MACH (2) = 2.000 BETAT (6) = 8.010	X/LT	.977	1.000
	PHI		
	.000	-.1790	-.1790
	90.000	-.1910	
	180.000	-.1870	

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2137

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY09) (25 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.160
 X/LT .977 1.000
 PHI
 .000 -.2330 -.1980
 90.000 -.2090
 180.000 -.2250

MACH (1) = 1.555 BETAT (2) = -6.170
 X/LT .977 1.000
 PHI
 .000 -.2120 -.1700
 90.000 -.1960
 180.000 -.1860

MACH (1) = 1.555 BETAT (3) = -4.180
 X/LT .977 1.000
 PHI
 .000 -.2050 -.1730
 90.000 -.1990
 180.000 -.1770

MACH (1) = 1.555 BETAT (4) = 3.640
 X/LT .977 1.000
 PHI
 .000 -.2070 -.1750
 90.000 -.1930
 180.000 -.1770

MACH (1) = 1.555 BETAT (5) = 5.690
 X/LT .977 1.000
 PHI
 .000 -.2170 -.1670
 90.000 -.2130
 180.000 -.1810

MACH (1) = 1.555 BETAT (6) = 7.740
 X/LT .977 1.000
 PHI
 .000 -.2220 -.1840
 90.000 -.2090
 180.000 -.2100

MACH (2) = 2.000 BETAT (1) = -8.340
 X/LT .977 1.000
 PHI
 .000 -.1880 -.1750
 90.000 -.1810
 180.000 -.1900

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK BASE

(RBOY09)

SECTION (1)EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (2) = -6.300	X/LT .977 1.000
	PHI
	.000 -.2000 -.1800
	90.000 -.1780
	180.000 -.1890
MACH (2) = 2.000 BETAT (3) = -4.250	X/LT .977 1.000
	PHI
	.000 -.1830 -.1650
	90.000 -.1620
	180.000 -.1740
MACH (2) = 2.000 BETAT (4) = 3.930	X/LT .977 1.000
	PHI
	.000 -.1900 -.1740
	90.000 -.1850
	180.000 -.1880
MACH (2) = 2.000 BETAT (5) = 8.020	X/LT .977 1.000
	PHI
	.000 -.1900 -.1790
	90.000 -.1910
	180.000 -.1890

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A98

PAGE 2139

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY10) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEWON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.200	X/LT	.977	1.000
		PHI		
		.000	-.2380	-.2120
		90.000	-.2370	
		180.000	-.2330	
MACH (1) = 1.555	BETAT (2) = -6.210	X/LT	.977	1.000
		PHI		
		.000	-.2210	-.1840
		90.000	-.2220	
		180.000	-.2120	
MACH (1) = 1.555	BETAT (3) = -4.220	X/LT	.977	1.000
		PHI		
		.000	-.2340	-.2000
		90.000	-.2290	
		180.000	-.1960	
MACH (1) = 1.555	BETAT (4) = 3.650	X/LT	.977	1.000
		PHI		
		.000	-.2320	-.1990
		90.000	-.2070	
		180.000	-.1930	
MACH (1) = 1.555	BETAT (5) = 5.710	X/LT	.977	1.000
		PHI		
		.000	-.2350	-.1910
		90.000	-.2190	
		180.000	-.2030	
MACH (1) = 1.555	BETAT (6) = 7.770	X/LT	.977	1.000
		PHI		
		.000	-.2210	-.1930
		90.000	-.2180	
		180.000	-.2250	
MACH (2) = 2.000	BETAT (1) = -8.390	X/LT	.977	1.000
		PHI		
		.000	-.2130	-.1980
		90.000	-.2140	
		180.000	-.2100	

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY10)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (2) = -6.330	X/LT	.977	1.000
	PHI		
	.000	-.2180	-.1970
	90.000	-.2010	
	180.000	-.2030	
MACH (2) = 2.000 BETAT (3) = -4.280	X/LT	.977	1.000
	PHI		
	.000	-.1970	-.1760
	90.000	-.1720	
	180.000	-.1830	
MACH (2) = 2.000 BETAT (4) = -.170	X/LT	.977	1.000
	PHI		
	.000	-.1790	-.1710
	90.000	-.1840	
	180.000	-.1790	
MACH (2) = 2.000 BETAT (5) = 3.940	X/LT	.977	1.000
	PHI		
	.000	-.1970	-.1800
	90.000	-.1940	
	180.000	-.1910	
MACH (2) = 2.000 BETAT (6) = 5.980	X/LT	.977	1.000
	PHI		
	.000	-.2150	-.1960
	90.000	-.2090	
	180.000	-.2000	
MACH (2) = 2.000 BETAT (7) = 8.050	X/LT	.977	1.000
	PHI		
	.000	-.2120	-.2010
	90.000	-.2030	
	180.000	-.2150	

DATE 25 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2141

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY11) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.420	X/LT	.977	1.000
		PHI		
		.000	-.2460	-.2230
		90.000	-.2450	
		180.000	-.2360	
MACH (1) = 1.555	BETAT (2) = -6.360	X/LT	.977	1.000
		PHI		
		.000	-.2340	-.2000
		90.000	-.2360	
		180.000	-.2120	
MACH (1) = 1.555	BETAT (3) = -4.310	X/LT	.977	1.000
		PHI		
		.000	-.2360	-.1990
		90.000	-.2360	
		180.000	-.2080	
MACH (1) = 1.555	BETAT (4) = -.180	X/LT	.977	1.000
		PHI		
		.000	-.2480	-.2060
		90.000	-.2480	
		180.000	-.2480	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LT	.977	1.000
		PHI		
		.000	-.2330	-.2020
		90.000	-.2100	
		180.000	-.1940	
MACH (1) = 1.555	BETAT (6) = 6.000	X/LT	.977	1.000
		PHI		
		.000	-.2360	-.1910
		90.000	-.2290	
		180.000	-.2140	
MACH (1) = 1.555	BETAT (7) = 8.060	X/LT	.977	1.000
		PHI		
		.000	-.2330	-.2070
		90.000	-.2310	
		180.000	-.2370	

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY11)

SECTION (1)EXTERNAL TANK BASE		DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -8.390	X/LT	.977	1.000	
	PHI			
	.000	-.2130	-.2010	
	90.000	-.2180		
	180.000	-.2170		
MACH (2) = 2.000 BETAT (2) = -6.340	X/LT	.977	1.000	
	PHI			
	.000	-.2140	-.1960	
	90.000	-.2030		
	180.000	-.2110		
MACH (2) = 2.000 BETAT (3) = -4.290	X/LT	.977	1.000	
	PHI			
	.000	-.2100	-.1830	
	90.000	-.1790		
	180.000	-.1920		
MACH (2) = 2.000 BETAT (4) = -1.180	X/LT	.977	1.000	
	PHI			
	.000	-.1850	-.1760	
	90.000	-.1840		
	180.000	-.1730		
MACH (2) = 2.000 BETAT (5) = 3.930	X/LT	.977	1.000	
	PHI			
	.000	-.1940	-.1740	
	90.000	-.1880		
	180.000	-.1920		
MACH (2) = 2.000 BETAT (6) = 5.980	X/LT	.977	1.000	
	PHI			
	.000	-.1960	-.1810	
	90.000	-.1900		
	180.000	-.1920		
MACH (2) = 2.000 BETAT (7) = 8.040	X/LT	.977	1.000	
	PHI			
	.000	-.2130	-.2020	
	90.000	-.2030		
	180.000	-.2130		

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2143

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY12) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350
 X/LT .977 1.000
 PHI
 .000 -.2330 -.1970
 90.000 -.2130
 180.000 -.2170

MACH (1) = 1.555 BETAT (2) = -6.310
 X/LT .977 1.000
 PHI
 .000 -.1980 -.1560
 90.000 -.1900
 180.000 -.1760

MACH (1) = 1.555 BETAT (3) = -4.260
 X/LT .977 1.000
 PHI
 .000 -.1790 -.1470
 90.000 -.1690
 180.000 -.1570

MACH (1) = 1.555 BETAT (4) = -.170
 X/LT .977 1.000
 PHI
 .000 -.2150 -.1840
 90.000 -.1900
 180.000 -.1860

MACH (1) = 1.555 BETAT (5) = 3.930
 X/LT .977 1.000
 PHI
 .000 -.1850 -.1500
 90.000 -.1720
 180.000 -.1550

MACH (1) = 1.555 BETAT (6) = 5.980
 X/LT .977 1.000
 PHI
 .000 -.2070 -.1560
 90.000 -.2000
 180.000 -.1770

MACH (1) = 1.555 BETAT (7) = 8.020
 X/LT .977 1.000
 PHI
 .000 -.2180 -.1780
 90.000 -.2050
 180.000 -.2090

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY12)

SECTION (1) EXTERNAL TANK BASE		DEPENDENT VARIABLE CP		
MACH (2) = 2.000	BETAT (1) = -8.320	X/LT	.977	1.000
		PHI		
		.000	-.1680	-.1690
		90.000	-.1830	
		180.000	-.1870	
MACH (2) = 2.000	BETAT (2) = -6.280	X/LT	.977	1.000
		PHI		
		.000	-.1920	-.1740
		90.000	-.1830	
		180.000	-.1920	
MACH (2) = 2.000	BETAT (3) = -4.240	X/LT	.977	1.000
		PHI		
		.000	-.1750	-.1590
		90.000	-.1680	
		180.000	-.1690	
MACH (2) = 2.000	BETAT (4) = -.170	X/LT	.977	1.000
		PHI		
		.000	-.1600	-.1490
		90.000	-.1630	
		180.000	-.1660	
MACH (2) = 2.000	BETAT (5) = 3.920	X/LT	.977	1.000
		PHI		
		.000	-.1830	-.1630
		90.000	-.1800	
		180.000	-.1810	
MACH (2) = 2.000	BETAT (6) = 5.960	X/LT	.977	1.000
		PHI		
		.000	-.1820	-.1690
		90.000	-.1860	
		180.000	-.1860	
MACH (2) = 2.000	BETAT (7) = 8.010	X/LT	.977	1.000
		PHI		
		.000	-.1750	-.1780
		90.000	-.1900	
		180.000	-.1880	

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2145

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY13) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELECON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.310	X/LT	.977	1.000
		PHI		
		.000	-.1840	-.1490
		90.000	-.1650	
		180.000	-.1750	
MACH (1) = 1.555	BETAT (2) = -6.280	X/LT	.977	1.000
		PHI		
		.000	-.1570	-.1130
		90.000	-.1370	
		180.000	-.1260	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LT	.977	1.000
		PHI		
		.000	-.1350	-.0930
		90.000	-.1260	
		180.000	-.1100	
MACH (1) = 1.555	BETAT (4) = -.140	X/LT	.977	1.000
		PHI		
		.000	-.1640	-.1290
		90.000	-.1680	
		180.000	-.1400	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LT	.977	1.000
		PHI		
		.000	-.1110	-.0920
		90.000	-.1270	
		180.000	-.1140	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LT	.977	1.000
		PHI		
		.000	-.1490	-.1110
		90.000	-.1400	
		180.000	-.1460	
MACH (1) = 1.555	BETAT (7) = 8.030	X/LT	.977	1.000
		PHI		
		.000	-.1850	-.1500
		90.000	-.1700	
		180.000	-.1700	

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY13)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.300	X/LT .977 1.000 PHI .000 -.1300 -.1250 90.000 -.1410 180.000 -.1370
MACH (2) = 2.000 BETAT (2) = -6.260	X/LT .977 1.000 PHI .000 -.1380 -.1290 90.000 -.1430 180.000 -.1420
MACH (2) = 2.000 BETAT (3) = -4.220	X/LT .977 1.000 PHI .000 -.1320 -.1220 90.000 -.1360 180.000 -.1360
MACH (2) = 2.000 BETAT (4) = -2.140	X/LT .977 1.000 PHI .000 -.1310 -.1180 90.000 -.1410 180.000 -.1330
MACH (2) = 2.000 BETAT (5) = 3.930	X/LT .977 1.000 PHI .000 -.1330 -.1210 90.000 -.1310 180.000 -.1400
MACH (2) = 2.000 BETAT (6) = 5.980	X/LT .977 1.000 PHI .000 -.1360 -.1270 90.000 -.1460 180.000 -.1450
MACH (2) = 2.000 BETAT (7) = 8.020	X/LT .977 1.000 PHI .000 -.1430 -.1330 90.000 -.1570 180.000 -.1490

DATE 23 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2147

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK BASE

(RBOY14) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 59.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUCFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	X/LT	.977	1.000
		PHI		
		.000	-.1480	-.1240
		90.000	-.1740	
		180.000	-.1380	
MACH (1) = 1.555	BETAT (2) = -6.260	X/LT	.977	1.000
		PHI		
		.000	-.1130	-.0830
		90.000	-.1310	
		180.000	-.1010	
MACH (1) = 1.555	BETAT (3) = -4.220	X/LT	.977	1.000
		PHI		
		.000	-.0910	-.0610
		90.000	-.1020	
		180.000	-.0870	
MACH (1) = 1.555	BETAT (4) = -.120	X/LT	.977	1.000
		PHI		
		.000	-.0950	-.0890
		90.000	-.1340	
		180.000	-.1060	
MACH (1) = 1.555	BETAT (5) = 3.950	X/LT	.977	1.000
		PHI		
		.000	-.1060	-.0630
		90.000	-.0900	
		180.000	-.0830	
MACH (1) = 1.555	BETAT (6) = 6.000	X/LT	.977	1.000
		PHI		
		.000	-.1130	-.0810
		90.000	-.1030	
		180.000	-.1200	
MACH (1) = 1.555	BETAT (7) = 8.040	X/LT	.977	1.000
		PHI		
		.000	-.1510	-.1200
		90.000	-.1330	
		180.000	-.1470	

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY14)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.290	X/LT .977 1.000 PHI .000 -.1140 -.0890 90.000 -.1250 180.000 -.1560
MACH (2) = 2.000 BETAT (2) = -6.250	X/LT .977 1.000 PHI .000 -.1030 -.0870 90.000 -.1100 180.000 -.1030
MACH (2) = 2.000 BETAT (3) = -4.200	X/LT .977 1.000 PHI .000 -.0930 -.0780 90.000 -.0960 180.000 -.0930
MACH (2) = 2.000 BETAT (4) = -2.130	X/LT .977 1.000 PHI .000 -.0960 -.0850 90.000 -.1160 180.000 -.0980
MACH (2) = 2.000 BETAT (5) = 3.950	X/LT .977 1.000 PHI .000 -.1040 -.0940 90.000 -.1070 180.000 -.1160
MACH (2) = 2.000 BETAT (6) = 5.990	X/LT .977 1.000 PHI .000 -.1130 -.1030 90.000 -.1140 180.000 -.1230
MACH (2) = 2.000 BETAT (7) = 8.040	X/LT .977 1.000 PHI .000 -.1190 -.1050 90.000 -.1100 180.000 -.1340

DATE 23 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2149

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY15) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES.
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320
 X/LT .977 1.000
 PHI
 .000 -.1340 -.1080
 90.000 -.1760
 180.000 -.1240

MACH (1) = 1.555 BETAT (2) = -6.280
 X/LT .977 1.000
 PHI
 .000 -.0910 -.0660
 90.000 -.1230
 180.000 -.0880

MACH (1) = 1.555 BETAT (3) = -4.230
 X/LT .977 1.000
 PHI
 .000 -.0800 -.0560
 90.000 -.0960
 180.000 -.0770

MACH (1) = 1.555 BETAT (4) = -.120
 X/LT .977 1.000
 PHI
 .000 -.0980 -.0630
 90.000 -.1150
 180.000 -.0930

MACH (1) = 1.555 BETAT (5) = 3.970
 X/LT .977 1.000
 PHI
 .000 -.0720 -.0510
 90.000 -.0830
 180.000 -.0940

MACH (1) = 1.555 BETAT (6) = 6.030
 X/LT .977 1.000
 PHI
 .000 -.0930 -.0710
 90.000 -.0870
 180.000 -.0980

MACH (1) = 1.555 BETAT (7) = 8.080
 X/LT .977 1.000
 PHI
 .000 -.1280 -.1060
 90.000 -.1150
 180.000 -.1330

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY15)

SECTION (1) EXTERNAL TANK BASE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -6.260	X/LT .977	1.000
		PHI	
		.000	-.0950
		90.000	-.1050
		180.000	-.0970
MACH (2) = 2.000	BETAT (2) = -4.210	X/LT .977	1.000
		PHI	
		.000	-.0790
		90.000	-.0860
		180.000	-.0800
MACH (2) = 2.000	BETAT (3) = -.130	X/LT .977	1.000
		PHI	
		.000	-.0770
		90.000	-.0880
		180.000	-.0840
MACH (2) = 2.000	BETAT (4) = 3.970	X/LT .977	1.000
		PHI	
		.000	-.0890
		90.000	-.0980
		180.000	-.1090
MACH (2) = 2.000	BETAT (5) = 6.020	X/LT .977	1.000
		PHI	
		.000	-.0950
		90.000	-.0990
		180.000	-.1130
MACH (2) = 2.000	BETAT (6) = 8.070	X/LT .977	1.000
		PHI	
		.000	-.1080
		90.000	-.0960
		180.000	-.1200

DATE 25 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2131

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY16) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.350	X/LT	.977	1.000
		PHI		
		.000	-.1220	-.0920
		90.000	-.1460	
		180.000	-.1110	
MACH (1) = 1.555	BETAT (2) = -6.290	X/LT	.977	1.000
		PHI		
		.000	-.0830	-.0590
		90.000	-.1040	
		180.000	-.0790	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LT	.977	1.000
		PHI		
		.000	-.0750	-.0490
		90.000	-.0780	
		180.000	-.0740	
MACH (1) = 1.555	BETAT (4) = -.110	X/LT	.977	1.000
		PHI		
		.000	-.0890	-.0530
		90.000	-.1090	
		180.000	-.0860	
MACH (1) = 1.555	BETAT (5) = 4.000	X/LT	.977	1.000
		PHI		
		.000	-.0620	-.0430
		90.000	-.0740	
		180.000	-.0870	
MACH (1) = 1.555	BETAT (6) = 6.060	X/LT	.977	1.000
		PHI		
		.000	-.0760	-.0600
		90.000	-.0790	
		180.000	-.0930	
MACH (1) = 1.555	BETAT (7) = 8.120	X/LT	.977	1.000
		PHI		
		.000	-.1210	-.1010
		90.000	-.1080	
		180.000	-.1210	

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY16)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.340	X/LT .977 1.000 PHI .000 -.0960 -.0750 90.000 -.1210 180.000 -.0970
MACH (2) = 2.000 BETAT (2) = -6.270	X/LT .977 1.000 PHI .000 -.0830 -.0680 90.000 -.0930 180.000 -.0810
MACH (2) = 2.000 BETAT (3) = -4.220	X/LT .977 1.000 PHI .000 -.0720 -.0570 90.000 -.0760 180.000 -.0680
MACH (2) = 2.000 BETAT (4) = -1.120	X/LT .977 1.000 PHI .000 -.0650 -.0540 90.000 -.0800 180.000 -.0820
MACH (2) = 2.000 BETAT (5) = 3.990	X/LT .977 1.000 PHI .000 -.0730 -.0660 90.000 -.0780 180.000 -.0870
MACH (2) = 2.000 BETAT (6) = 6.050	X/LT .977 1.000 PHI .000 -.0870 -.0760 90.000 -.0880 180.000 -.0940
MACH (2) = 2.000 BETAT (7) = 8.110	X/LT .977 1.000 PHI .000 -.0900 -.0770 90.000 -.0820 180.000 -.0960

DATE 25 SEP 73

LABULATED PRESSURE DATA - IA9B

PAGE 2153

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK BASE

(RBOY17) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.410	X/LT .977 1.000
	PHI
	.000 -.2420 -.2190
	90.000 -.2310
	180.000 -.2290
MACH (1) = 1.555 BETAT (2) = -6.360	X/LT .977 1.000
	PHI
	.000 -.2290 -.1950
	90.000 -.2230
	180.000 -.2100
MACH (1) = 1.555 BETAT (3) = -4.300	X/LT .977 1.000
	PHI
	.000 -.2340 -.1890
	90.000 -.2240
	180.000 -.2140
MACH (1) = 1.555 BETAT (4) = -.180	X/LT .977 1.000
	PHI
	.000 -.2460 -.2020
	90.000 -.2470
	180.000 -.2230
MACH (1) = 1.555 BETAT (5) = 3.930	X/LT .977 1.000
	PHI
	.000 -.2320 -.1980
	90.000 -.2100
	180.000 -.1990
MACH (1) = 1.555 BETAT (6) = 5.990	X/LT .977 1.000
	PHI
	.000 -.2390 -.1900
	90.000 -.2280
	180.000 -.2040
MACH (1) = 1.555 BETAT (7) = 8.050	X/LT .977 1.000
	PHI
	.000 -.2330 -.2100
	90.000 -.2370
	180.000 -.2390

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY17)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.380	X/LT .977 1.000
	PHI
	.000 -.2120 -.1950
	90.000 -.2120
	180.000 -.2140
MACH (2) = 2.000 BETAT (2) = -6.330	X/LT .977 1.000
	PHI
	.000 -.1930 -.1620
	90.000 -.1910
	180.000 -.1920
MACH (2) = 2.000 BETAT (3) = -4.280	X/LT .977 1.000
	PHI
	.000 -.2060 -.1830
	90.000 -.1750
	180.000 -.1890
MACH (2) = 2.000 BETAT (4) = -1.170	X/LT .977 1.000
	PHI
	.000 -.1760 -.1690
	90.000 -.1780
	180.000 -.1750
MACH (2) = 2.000 BETAT (5) = 3.930	X/LT .977 1.000
	PHI
	.000 -.2050 -.1830
	90.000 -.1980
	180.000 -.1910
MACH (2) = 2.000 BETAT (6) = 5.980	X/LT .977 1.000
	PHI
	.000 -.2130 -.1910
	90.000 -.2090
	180.000 -.1970
MACH (2) = 2.000 BETAT (7) = 8.040	X/LT .977 1.000
	PHI
	.000 -.2170 -.2050
	90.000 -.2060
	180.000 -.2180

DATE 28 SEP 75

TABULATED PRESSURE DATA - IA9B

PAGE 2155

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK BASE

(RBOY18) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.340	X/LT	.977	1.000
		PHI		
		.000	-.2290	-.1970
		90.000	-.2030	
		180.000	-.2120	
MACH (1) = 1.555	BETAT (2) = -6.300	X/LT	.977	1.000
		PHI		
		.000	-.2020	-.1620
		90.000	-.1860	
		180.000	-.1720	
MACH (1) = 1.555	BETAT (3) = -4.250	X/LT	.977	1.000
		PHI		
		.000	-.1780	-.1430
		90.000	-.1670	
		180.000	-.1530	
MACH (1) = 1.555	BETAT (4) = -.160	X/LT	.977	1.000
		PHI		
		.000	-.1960	-.1680
		90.000	-.2110	
		180.000	-.1780	
MACH (1) = 1.555	BETAT (5) = 3.930	X/LT	.977	1.000
		PHI		
		.000	-.1820	-.1510
		90.000	-.1710	
		180.000	-.1560	
MACH (1) = 1.555	BETAT (6) = 5.980	X/LT	.977	1.000
		PHI		
		.000	-.2150	-.1630
		90.000	-.2030	
		180.000	-.1760	
MACH (1) = 1.555	BETAT (7) = 8.020	X/LT	.977	1.000
		PHI		
		.000	-.2150	-.1860
		90.000	-.2150	
		180.000	-.2120	

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY18)

SECTION (1)EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.320	X/LT .977 1.000
	PHI
	.000 -.1700 -.1700
	90.000 -.1830
	180.000 -.1890
MACH (2) = 2.000 BETAT (2) = -6.270	X/LT .977 1.000
	PHI
	.000 -.2020 -.1790
	90.000 -.1870
	180.000 -.1980
MACH (2) = 2.000 BETAT (3) = -4.230	X/LT .977 1.000
	PHI
	.000 -.1760 -.1600
	90.000 -.1620
	180.000 -.1700
MACH (2) = 2.000 BETAT (4) = -.160	X/LT .977 1.000
	PHI
	.000 -.1600 -.1500
	90.000 -.1630
	180.000 -.1580
MACH (2) = 2.000 BETAT (5) = 3.920	X/LT .977 1.000
	PHI
	.000 -.1810 -.1620
	90.000 -.1800
	180.000 -.1790
MACH (2) = 2.000 BETAT (6) = 5.960	X/LT .977 1.000
	PHI
	.000 -.1970 -.1780
	90.000 -.1960
	180.000 -.1910
MACH (2) = 2.000 BETAT (7) = 8.010	X/LT .977 1.000
	PHI
	.000 -.1810 -.1840
	90.000 -.1960
	180.000 -.1880

DATE 25 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2157

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY19) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	X/LT	.977	1.000
		PHI		
		.000	-.1880	-.1570
		90.000	-.1610	
		180.000	-.1740	
MACH (1) = 1.555	BETAT (2) = -6.270	X/LT	.977	1.000
		PHI		
		.000	-.1590	-.1200
		90.000	-.1320	
		180.000	-.1430	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LT	.977	1.000
		PHI		
		.000	-.1320	-.0980
		90.000	-.1300	
		180.000	-.1200	
MACH (1) = 1.555	BETAT (4) = -.140	X/LT	.977	1.000
		PHI		
		.000	-.1570	-.1280
		90.000	-.1750	
		180.000	-.1390	
MACH (1) = 1.555	BETAT (5) = 3.950	X/LT	.977	1.000
		PHI		
		.000	-.1290	-.0990
		90.000	-.1360	
		180.000	-.1270	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LT	.977	1.000
		PHI		
		.000	-.1480	-.1180
		90.000	-.1530	
		180.000	-.1490	
MACH (1) = 1.555	BETAT (7) = 8.040	X/LT	.977	1.000
		PHI		
		.000	-.1890	-.1620
		90.000	-.1800	
		180.000	-.1800	

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK BASE

(RBOY19)

SECTION (1)EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.300	X/LT .977 1.000
	PHI
	.000 -.1360 -.1310
	90.000 -.1480
	180.000 -.1410
MACH (2) = 2.000 BETAT (2) = -6.260	X/LT .977 1.000
	PHI
	.000 -.1460 -.1340
	90.000 -.1490
	180.000 -.1510
MACH (2) = 2.000 BETAT (3) = -4.220	X/LT .977 1.000
	PHI
	.000 -.1300 -.1180
	90.000 -.1340
	180.000 -.1360
MACH (2) = 2.000 BETAT (4) = -.140	X/LT .977 1.000
	PHI
	.000 -.1340 -.1230
	90.000 -.1440
	180.000 -.1300
MACH (2) = 2.000 BETAT (5) = 3.930	X/LT .977 1.000
	PHI
	.000 -.1320 -.1210
	90.000 -.1320
	180.000 -.1400
MACH (2) = 2.000 BETAT (6) = 5.980	X/LT .977 1.000
	PHI
	.000 -.1410 -.1310
	90.000 -.1500
	180.000 -.1470
MACH (2) = 2.000 BETAT (7) = 8.020	X/LT .977 1.000
	PHI
	.000 -.1430 -.1330
	90.000 -.1550
	180.000 -.1480

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2159

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY20) (25 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	X/LT	.977	1.000
		PHI		
		.000	-.1470	-.1230
		90.000	-.1720	
		180.000	-.1370	
MACH (1) = 1.555	BETAT (2) = -6.270	X/LT	.977	1.000
		PHI		
		.000	-.1130	-.0830
		90.000	-.1300	
		180.000	-.1090	
MACH (1) = 1.555	BETAT (3) = -4.220	X/LT	.977	1.000
		PHI		
		.000	-.0900	-.0610
		90.000	-.0940	
		180.000	-.0890	
MACH (1) = 1.555	BETAT (4) = -.130	X/LT	.977	1.000
		PHI		
		.000	-.0890	-.0830
		90.000	-.1360	
		180.000	-.1030	
MACH (1) = 1.555	BETAT (5) = 3.960	X/LT	.977	1.000
		PHI		
		.000	-.1080	-.0680
		90.000	-.1010	
		180.000	-.0990	
MACH (1) = 1.555	BETAT (6) = 6.010	X/LT	.977	1.000
		PHI		
		.000	-.1180	-.0830
		90.000	-.1130	
		180.000	-.1150	
MACH (1) = 1.555	BETAT (7) = 8.080	X/LT	.977	1.000
		PHI		
		.000	-.1500	-.1200
		90.000	-.1320	
		180.000	-.1650	

AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY20)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -8.280	X/LT	.977	1.000
	PHI		
	.000	-.1130	-.0920
	90.000	-.1240	
	180.000	-.1120	
MACH (2) = 2.000 BETAT (2) = -6.240	X/LT	.977	1.000
	PHI		
	.000	-.1100	-.0950
	90.000	-.1180	
	180.000	-.1170	
MACH (2) = 2.000 BETAT (3) = -4.200	X/LT	.977	1.000
	PHI		
	.000	-.0980	-.0840
	90.000	-.0990	
	180.000	-.1030	
MACH (2) = 2.000 BETAT (4) = -.130	X/LT	.977	1.000
	PHI		
	.000	-.0910	-.0800
	90.000	-.1120	
	180.000	-.0970	
MACH (2) = 2.000 BETAT (5) = 3.950	X/LT	.977	1.000
	PHI		
	.000	-.1010	-.0910
	90.000	-.1060	
	180.000	-.1150	
MACH (2) = 2.000 BETAT (6) = 5.990	X/LT	.977	1.000
	PHI		
	.000	-.1150	-.1020
	90.000	-.1150	
	180.000	-.1200	
MACH (2) = 2.000 BETAT (7) = 8.040	X/LT	.977	1.000
	PHI		
	.000	-.1120	-.0990
	90.000	-.1060	
	180.000	-.1260	

DATE 25 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2161

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY21) (25 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 CRBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	X/LT	.977	1.000
		PHI		
		.000	-.1370	-.1130
		90.000	-.1740	
		180.000	-.1280	
MACH (1) = 1.555	BETAT (2) = -6.290	X/LT	.977	1.000
		PHI		
		.000	-.1010	-.0750
		90.000	-.1320	
		180.000	-.0980	
MACH (1) = 1.555	BETAT (3) = -4.230	X/LT	.977	1.000
		PHI		
		.000	-.0830	-.0570
		90.000	-.0910	
		180.000	-.0800	
MACH (1) = 1.555	BETAT (4) = -.120	X/LT	.977	1.000
		PHI		
		.000	-.0990	-.0640
		90.000	-.1140	
		180.000	-.0970	
MACH (1) = 1.555	BETAT (5) = 3.980	X/LT	.977	1.000
		PHI		
		.000	-.0930	-.0510
		90.000	-.0870	
		180.000	-.0780	
MACH (1) = 1.555	BETAT (6) = 6.040	X/LT	.977	1.000
		PHI		
		.000	-.0970	-.0700
		90.000	-.0980	
		180.000	-.1070	
MACH (1) = 1.555	BETAT (7) = 8.110	X/LT	.977	1.000
		PHI		
		.000	-.1350	-.1030
		90.000	-.1190	
		180.000	-.1420	

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK BASE

(RBOY21)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -8.310	X/LT	.977	1.000
	PHI		
	.000	-.0950	-.0820
	90.000	-.1120	
	180.000	-.1010	
MACH (2) = 2.000 BETAT (2) = -6.260	X/LT	.977	1.000
	PHI		
	.000	-.0990	-.0860
	90.000	-.1100	
	180.000	-.1060	
MACH (2) = 2.000 BETAT (3) = -4.210	X/LT	.977	1.000
	PHI		
	.000	-.0880	-.0720
	90.000	-.0920	
	180.000	-.0910	
MACH (2) = 2.000 BETAT (4) = -.120	X/LT	.977	1.000
	PHI		
	.000	-.0730	-.0630
	90.000	-.0910	
	180.000	-.0880	
MACH (2) = 2.000 BETAT (5) = 3.970	X/LT	.977	1.000
	PHI		
	.000	-.0860	-.0800
	90.000	-.0960	
	180.000	-.1040	
MACH (2) = 2.000 BETAT (6) = 6.020	X/LT	.977	1.000
	PHI		
	.000	-.1000	-.0930
	90.000	-.1020	
	180.000	-.1120	
MACH (2) = 2.000 BETAT (7) = 8.070	X/LT	.977	1.000
	PHI		
	.000	-.1110	-.1000
	90.000	-.0970	
	180.000	-.1160	

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2163

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY22) (25 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.360	X/LT	.977	1.000
		PHI		
		.000	-.1270	-.0970
		90.000	-.1460	
		180.000	-.1120	
MACH (1) = 1.555	BETAT (2) = -6.310	X/LT	.977	1.000
		PHI		
		.000	-.0870	-.0620
		90.000	-.1120	
		180.000	-.0870	
MACH (1) = 1.555	BETAT (3) = -4.230	X/LT	.977	1.000
		PHI		
		.000	-.0760	-.0500
		90.000	-.0830	
		180.000	-.0820	
MACH (1) = 1.555	BETAT (4) = -.110	X/LT	.977	1.000
		PHI		
		.000	-.0960	-.0540
		90.000	-.1090	
		180.000	-.0900	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LT	.977	1.000
		PHI		
		.000	-.0650	-.0420
		90.000	-.0780	
		180.000	-.0800	
MACH (1) = 1.555	BETAT (6) = 6.060	X/LT	.977	1.000
		PHI		
		.000	-.0780	-.0560
		90.000	-.0890	
		180.000	-.0960	
MACH (1) = 1.555	BETAT (7) = 8.120	X/LT	.977	1.000
		PHI		
		.000	-.1150	-.0940
		90.000	-.1050	
		180.000	-.1200	

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY22)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -8.330	X/LT	.977	1.000
	PHI		
	.000	-.0780	-.0630
	90.000	-.0990	
	180.000	-.0820	
MACH (2) = 2.000 BETAT (2) = -6.280	X/LT	.977	1.000
	PHI		
	.000	-.0850	-.0720
	90.000	-.0970	
	180.000	-.0900	
MACH (2) = 2.000 BETAT (3) = -4.220	X/LT	.977	1.000
	PHI		
	.000	-.0720	-.0600
	90.000	-.0800	
	180.000	-.0780	
MACH (2) = 2.000 BETAT (4) = -.110	X/LT	.977	1.000
	PHI		
	.000	-.0610	-.0480
	90.000	-.0770	
	180.000	-.0780	
MACH (2) = 2.000 BETAT (5) = 4.000	X/LT	.977	1.000
	PHI		
	.000	-.0820	-.0720
	90.000	-.0830	
	180.000	-.0930	
MACH (2) = 2.000 BETAT (6) = 6.050	X/LT	.977	1.000
	PHI		
	.000	-.0970	-.0840
	90.000	-.0940	
	180.000	-.0990	
MACH (2) = 2.000 BETAT (7) = 8.110	X/LT	.977	1.000
	PHI		
	.000	-.0960	-.0850
	90.000	-.0850	
	180.000	-.1000	

DATE 25 SEP 73

LABULATED PRESSURE DATA - IA9D

PAGE 2165

AMES 97-707 IA9 Q2A + S3 + T9 EXTERNAL TANK BASE

(RBOY23) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEWON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.400	X/LT	.977	1.000
		PHI		
		.000	-.2510	-.2280
		90.000	-.2430	
		180.000	-.2410	
MACH (1) = 1.555	BETAT (2) = -6.360	X/LT	.977	1.000
		PHI		
		.000	-.2320	-.2000
		90.000	-.2290	
		180.000	-.2190	
MACH (1) = 1.555	BETAT (3) = -4.290	X/LT	.977	1.000
		PHI		
		.000	-.2300	-.1970
		90.000	-.2350	
		180.000	-.2250	
MACH (1) = 1.555	BETAT (4) = -.170	X/LT	.977	1.000
		PHI		
		.000	-.2590	-.2260
		90.000	-.2380	
		180.000	-.2220	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LT	.977	1.000
		PHI		
		.000	-.2290	-.1980
		90.000	-.2130	
		180.000	-.1900	
MACH (1) = 1.555	BETAT (6) = 8.060	X/LT	.977	1.000
		PHI		
		.000	-.2310	-.2100
		90.000	-.2320	
		180.000	-.2340	
MACH (2) = 2.000	BETAT (1) = -8.380	X/LT	.977	1.000
		PHI		
		.000	-.2110	-.1960
		90.000	-.2120	
		180.000	-.2150	

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY23)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (2) = -6.330	X/LT	.977	1.000
	PHI		
	.000	-.2120	-.1910
	90.000	-.1980	
	180.000	-.2070	
MACH (2) = 2.000 BETAT (3) = -4.280	X/LT	.977	1.000
	PHI		
	.000	-.1990	-.1760
	90.000	-.1720	
	180.000	-.1830	
MACH (2) = 2.000 BETAT (4) = -1.170	X/LT	.977	1.000
	PHI		
	.000	-.1850	-.1760
	90.000	-.1820	
	180.000	-.1810	
MACH (2) = 2.000 BETAT (5) = 3.930	X/LT	.977	1.000
	PHI		
	.000	-.1990	-.1770
	90.000	-.1950	
	180.000	-.1830	
MACH (2) = 2.000 BETAT (6) = 5.980	X/LT	.977	1.000
	PHI		
	.000	-.2130	-.1920
	90.000	-.2120	
	180.000	-.1960	
MACH (2) = 2.000 BETAT (7) = 8.040	X/LT	.977	1.000
	PHI		
	.000	-.2140	-.2040
	90.000	-.2050	
	180.000	-.2160	

DATE 25 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2167

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY24) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5350 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	X/LT	.977	1.000
		PHI		
		.000	-.2420	-.2030
		90.000	-.2080	
		180.000	-.2230	
MACH (1) = 1.555	BETAT (2) = -6.290	X/LT	.977	1.000
		PHI		
		.000	-.2030	-.1650
		90.000	-.1900	
		180.000	-.1790	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LT	.977	1.000
		PHI		
		.000	-.1770	-.1430
		90.000	-.1690	
		180.000	-.1680	
MACH (1) = 1.555	BETAT (4) = -.150	X/LT	.977	1.000
		PHI		
		.000	-.2140	-.1830
		90.000	-.1950	
		180.000	-.1780	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LT	.977	1.000
		PHI		
		.000	-.1860	-.1560
		90.000	-.1700	
		180.000	-.1550	
MACH (1) = 1.555	BETAT (6) = 5.980	X/LT	.977	1.000
		PHI		
		.000	-.2040	-.1550
		90.000	-.2020	
		180.000	-.1640	
MACH (1) = 1.555	BETAT (7) = 8.030	X/LT	.977	1.000
		PHI		
		.000	-.2180	-.1820
		90.000	-.2090	
		180.000	-.2100	

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY24)

SECTION (1)EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.310	X/LT .977 1.000
	PHI
	.000 -.1680 -.1710
	90.000 -.1830
	180.000 -.1930
MACH (2) = 2.000 BETAT (2) = -6.270	X/LT .977 1.000
	PHI
	.000 -.1950 -.1760
	90.000 -.1840
	180.000 -.1960
MACH (2) = 2.000 BETAT (3) = -4.230	X/LT .977 1.000
	PHI
	.000 -.1770 -.1610
	90.000 -.1660
	180.000 -.1750
MACH (2) = 2.000 BETAT (4) = -2.180	X/LT .977 1.000
	PHI
	.000 -.1660 -.1540
	90.000 -.1660
	180.000 -.1620
MACH (2) = 2.000 BETAT (5) = 0.100	X/LT .977 1.000
	PHI
	.000 -.1850 -.1650
	90.000 -.1850
	180.000 -.1760
MACH (2) = 2.000 BETAT (6) = 2.060	X/LT .977 1.000
	PHI
	.000 -.1980 -.1810
	90.000 -.1980
	180.000 -.1850
MACH (2) = 2.000 BETAT (7) = 8.010	X/LT .977 1.000
	PHI
	.000 -.1770 -.1740
	90.000 -.1940
	180.000 -.1840

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9D

PAGE 2169

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(R00Y25) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	X/LT	.977	1.000
		PHI		
		.000	-.1920	-.1570
		90.000	-.1640	
		180.000	-.1800	
MACH (1) = 1.555	BETAT (2) = -6.270	X/LT	.977	1.000
		PHI		
		.000	-.1580	-.1230
		90.000	-.1390	
		180.000	-.1400	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LT	.977	1.000
		PHI		
		.000	-.1250	-.0920
		90.000	-.1240	
		180.000	-.1200	
MACH (1) = 1.555	BETAT (4) = -.130	X/LT	.977	1.000
		PHI		
		.000	-.1570	-.1270
		90.000	-.1760	
		180.000	-.1380	
MACH (1) = 1.555	BETAT (5) = 3.950	X/LT	.977	1.000
		PHI		
		.000	-.1160	-.0940
		90.000	-.1280	
		180.000	-.1130	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LT	.977	1.000
		PHI		
		.000	-.1490	-.1100
		90.000	-.1440	
		180.000	-.1390	
MACH (1) = 1.555	BETAT (7) = 8.040	X/LT	.977	1.000
		PHI		
		.000	-.1860	-.1520
		90.000	-.1730	
		180.000	-.1760	

AMES 97-707 1A9 O2A + S3 + T9 EXTERNAL TANK BASE

(RBOY25)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.290	X/LT .977 1.000
	PHI
	.000 -.1280 -.1250
	90.000 -.1410
	180.000 -.1350
MACH (2) = 2.000 BETAT (2) = -6.250	X/LT .977 1.000
	PHI
	.000 -.1330 -.1250
	90.000 -.1410
	180.000 -.1430
MACH (2) = 2.000 BETAT (3) = -4.210	X/LT .977 1.000
	PHI
	.000 -.1280 -.1150
	90.000 -.1350
	180.000 -.1350
MACH (2) = 2.000 BETAT (4) = -2.140	X/LT .977 1.000
	PHI
	.000 -.1330 -.1160
	90.000 -.1330
	180.000 -.1220
MACH (2) = 2.000 BETAT (5) = 0.250	X/LT .977 1.000
	PHI
	.000 -.1390 -.1260
	90.000 -.1350
	180.000 -.1420
MACH (2) = 2.000 BETAT (6) = 0.000	X/LT .977 1.000
	PHI
	.000 -.1460 -.1370
	90.000 -.1580
	180.000 -.1520

DATE 25 SEP 73

TABULATED PRESSURE DATA - IA9B

PAGE 2171

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK BASE

(RBOY26) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUCFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300
 X/LT .977 1.000
 PHI
 .000 -.1480 -.1230
 90.000 -.1740
 180.000 -.1400

MACH (1) = 1.555 BETAT (2) = -6.260
 X/LT .977 1.000
 PHI
 .000 -.1070 -.0810
 90.000 -.1290
 180.000 -.1050

MACH (1) = 1.555 BETAT (3) = -4.220
 X/LT .977 1.000
 PHI
 .000 -.0940 -.0640
 90.000 -.0950
 180.000 -.0890

MACH (1) = 1.555 BETAT (4) = -.120
 X/LT .977 1.000
 PHI
 .000 -.1020 -.0800
 90.000 -.1370
 180.000 -.1040

MACH (1) = 1.555 BETAT (5) = 3.960
 X/LT .977 1.000
 PHI
 .000 -.1000 -.0610
 90.000 -.0850
 180.000 -.0780

MACH (1) = 1.555 BETAT (6) = 6.010
 X/LT .977 1.000
 PHI
 .000 -.1120 -.0810
 90.000 -.1060
 180.000 -.1080

MACH (1) = 1.555 BETAT (7) = 8.050
 X/LT .977 1.000
 PHI
 .000 -.1530 -.1230
 90.000 -.1380
 180.000 -.1440

AMES 97-707 IA9 O2A + S3 + T9 EXTERNAL TANK BASE

(RBOY26)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -8.280	X/LT .977 1.000
	PHI
	.000 -.1030 -.0860
	90.000 -.1170
	180.000 -.1050
MACH (2) = 2.000 BETAT (2) = -6.230	X/LT .977 1.000
	PHI
	.000 -.1050 -.0900
	90.000 -.1140
	180.000 -.1080
MACH (2) = 2.000 BETAT (3) = -4.200	X/LT .977 1.000
	PHI
	.000 -.0950 -.0810
	90.000 -.1000
	180.000 -.1010
MACH (2) = 2.000 BETAT (4) = -1.120	X/LT .977 1.000
	PHI
	.000 -.0990 -.0850
	90.000 -.1170
	180.000 -.0960
MACH (2) = 2.000 BETAT (5) = 5.950	X/LT .977 1.000
	PHI
	.000 -.1020 -.0900
	90.000 -.1050
	180.000 -.1100
MACH (2) = 2.000 BETAT (6) = 5.990	X/LT .977 1.000
	PHI
	.000 -.1220 -.1100
	90.000 -.1200
	180.000 -.1280
MACH (2) = 2.000 BETAT (7) = 8.030	X/LT .977 1.000
	PHI
	.000 -.1220 -.1100
	90.000 -.1150
	180.000 -.1340

DATE 25 SEP 73

TABULATED PRESSURE DATA - 1A9B

PAGE 2173

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY27) (23 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.6490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330
 X/LT .977 1.000
 PHI
 .000 -.1380 -.1140
 90.000 -.1760
 180.000 -.1310

MACH (1) = 1.555 BETAT (2) = -6.270
 X/LT .977 1.000
 PHI
 .000 -.0920 -.0660
 90.000 -.1220
 180.000 -.0910

MACH (1) = 1.555 BETAT (3) = -4.230
 X/LT .977 1.000
 PHI
 .000 -.0620 -.0560
 90.000 -.0950
 180.000 -.0790

MACH (1) = 1.555 BETAT (4) = -.110
 X/LT .977 1.000
 PHI
 .000 -.1050 -.0680
 90.000 -.1120
 180.000 -.0950

MACH (1) = 1.555 BETAT (5) = 3.990
 X/LT .977 1.000
 PHI
 .000 -.0770 -.0480
 90.000 -.0810
 180.000 -.0830

MACH (1) = 1.555 BETAT (6) = 6.030
 X/LT .977 1.000
 PHI
 .000 -.0960 -.0710
 90.000 -.0920
 180.000 -.0970

MACH (1) = 1.555 BETAT (7) = 8.090
 X/LT .977 1.000
 PHI
 .000 -.1330 -.1090
 90.000 -.1200
 180.000 -.1320

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE

(RBOY27)

SECTION (1) EXTERNAL TANK BASE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -8.300	X/LT	.977	1.000
	PHI		
	.000	-.0860	-.0740
	90.000	-.1070	
	180.000	-.0930	
MACH (2) = 2.000 BETAT (2) = -6.250	X/LT	.977	1.000
	PHI		
	.000	-.0880	-.0770
	90.000	-.1000	
	180.000	-.0940	
MACH (2) = 2.000 BETAT (3) = -4.200	X/LT	.977	1.000
	PHI		
	.000	-.0850	-.0720
	90.000	-.0910	
	180.000	-.0860	
MACH (2) = 2.000 BETAT (4) = -2.120	X/LT	.977	1.000
	PHI		
	.000	-.0730	-.0580
	90.000	-.0880	
	180.000	-.0790	
MACH (2) = 2.000 BETAT (5) = 0.000	X/LT	.977	1.000
	PHI		
	.000	-.0900	-.0820
	90.000	-.0980	
	180.000	-.1030	
MACH (2) = 2.000 BETAT (6) = 2.000	X/LT	.977	1.000
	PHI		
	.000	-.0980	-.0910
	90.000	-.1020	
	180.000	-.1100	
MACH (2) = 2.000 BETAT (7) = 6.000	X/LT	.977	1.000
	PHI		
	.000	-.1150	-.1010
	90.000	-.0980	
	180.000	-.1180	

DATE 20 SEP 75

TABULATED PRESSURE DATA - IASB

PAGE 2175

AMES 9T-707 IAS O2A + S3 + TS EXTERNAL TANK BASE

(RBOY28) (25 MAY 75)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 59.8490 INCHES YMRP = .0000 INCHES
 BREF = 59.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) EXTERNAL TANK BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350	X/LT	.977	1.000
	PHI		
	.000	-.1300	-.0990
	90.000	-.1450	
	180.000	-.1170	
MACH (1) = 1.555 BETAT (2) = -6.300	X/LT	.977	1.000
	PHI		
	.000	-.0860	-.0610
	90.000	-.1050	
	180.000	-.0840	
MACH (1) = 1.555 BETAT (3) = -4.230	X/LT	.977	1.000
	PHI		
	.000	-.0710	-.0470
	90.000	-.0810	
	180.000	-.0670	
MACH (1) = 1.555 BETAT (4) = -.110	X/LT	.977	1.000
	PHI		
	.000	-.0910	-.0530
	90.000	-.1060	
	180.000	-.0820	
MACH (1) = 1.555 BETAT (5) = 4.000	X/LT	.977	1.000
	PHI		
	.000	-.0620	-.0380
	90.000	-.0730	
	180.000	-.0740	
MACH (1) = 1.555 BETAT (6) = 6.060	X/LT	.977	1.000
	PHI		
	.000	-.0750	-.0550
	90.000	-.0800	
	180.000	-.0860	
MACH (1) = 1.555 BETAT (7) = 8.130	X/LT	.977	1.000
	PHI		
	.000	-.1170	-.0950
	90.000	-.1070	
	180.000	-.1160	